



Acco Products Division

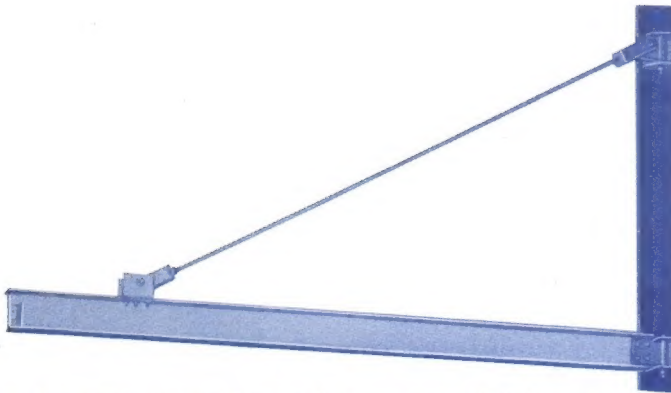
A division of Babcock Industries Inc.

Issued 10-1-85
Supersedes 3-1-85

51-1

SERIES 511

**WALL BRACKET
JIB CRANES**
CAPACITIES ½ to 5 TONS
SPANS 8 to 30 FEET



An Acco Series 511 Wall Bracket Jib Crane is very desirable as a supplement to a regular traveling crane or monorail track, or for individual use in bays and along the walls or side of shops. It provides a versatile and cost-effective solution to your crane needs where adequate headroom and structural support exists. The jib crane rotates 200° serving the area within the radius of the beam's span.

All fittings are of structural steel components, manufactured to avoid reliance upon casting or tension welds. The components are bolted together to allow for ease in installation.

CONSTRUCTION FEATURES

TOP BRACKET: The top bracket is a formed steel channel which is bolted to the wall support. A bolt connects the steel channel to the clevis holder. The clevis holder has a steel tube with two bronze bearings pressed into it, and wraps around channel. A thrust washer is provided for ease of rotation.

BOTTOM BRACKET: The bottom bracket has the same formed channel bracket, bolted connections, bearings and lubrication fittings as the top brackets.

The bottom bracket's two plates clamp both sides of the boom web, providing true double shear bolted connections and resistance to bending.

BEAM BRACKET FITTING: The bracket consists of a formed clevis which is fastened to the tie rod, and is bolted to the formed beam channel. This places the clevis retainer bolt in double shear.

BOOM: Standard I beam with removable end stops is used for the jib boom. In some cases it is reinforced with capped channel.

TIE RODS: A single tie rod, right-hand threaded at each end, is utilized for ease of leveling the boom.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.

1/2 to 5 TONS

SERIES 511 WALL BRACKET JIB CRANES

51-2

| Capacity Tons | Span Ft. | Product Number | Beam W | Capped Channel Length | Bracket Center B | Tie Rod Length | Beam Bracket To Beam End D | Thrust and Pull Lbs. | Net Weight Lbs. |
|------------------|-------------|-------------------|-----------|-----------------------------|------------------------|-------------------|----------------------------------|----------------------------|-----------------------|
| 1/2 | 8 | 5110001 | 6 | | 2'-9" | 6'-1 1/2" | 1'-3" | 3,720 | 265 |
| | 10 | 5110002 | 6 | | 3'-0" | 7'-10 1/4" | 1'-6" | 4,420 | 300 |
| | 12 | 5110003 | 6 | | 3'-9" | 9'-9" | 1'-9" | 4,360 | 335 |
| | 14 | 5110004 | 6 | | 4'-6" | 11'-7 1/2" | 2'-0" | 4,330 | 375 |
| | 16 | 5110005 | 6 | | 5'-6" | 13'-10 1/2" | 2'-0" | 4,120 | 410 |
| | 18 | 5110006 | 7 | | 6'-0" | 15'-11" | 2'-0" | 4,400 | 495 |
| | 20 | 5110007 | 8 | | 6'-6" | 17'-8 1/2" | 2'-3" | 4,680 | 600 |
| | 22 | 5110008 | 8c6 | 18'-9" | 7'-0" | 19'-9 1/4" | 2'-3" | 5,130 | 905 |
| | 24 | 5110009 | 8c6 | 20'-6" | 7'-6" | 21'-7" | 2'-6" | 5,350 | 975 |
| | 26 | 5110010 | 10c6 | 22'-6" | 8'-0" | 23'-8 1/2" | 2'-6" | 5,810 | 1230 |
| | 28 | 5110011 | 10c6 | 24'-0" | 9'-0" | 25'-4 1/4" | 3'-0" | 5,680 | 1315 |
| | 30 | 5110012 | 12c8 | 25'-6" | 10'-0" | 27'-1" | 3'-6" | 6,040 | 1710 |
| 1 | 8 | 5110013 | 6 | | 2'-9" | 6'-1 1/2" | 1'-3" | 7,280 | 265 |
| | 10 | 5110014 | 6 | | 3'-0" | 7'-10 1/4" | 1'-6" | 8,620 | 300 |
| | 12 | 5110015 | 6 | | 3'-9" | 9'-9" | 1'-9" | 8,640 | 335 |
| | 14 | 5110016 | 7 | | 4'-6" | 11'-7 1/2" | 2'-0" | 8,440 | 415 |
| | 16 | 5110017 | 7 | | 5'-6" | 13'-7 1/2" | 2'-3" | 8,010 | 455 |
| | 18 | 5110018 | 8 | | 6'-0" | 15'-5' | 2'-6" | 8,450 | 555 |
| | 20 | 5110019 | 10 | | 6'-6" | 17'-5 1/4" | 2'-6" | 8,980 | 745 |
| | 22 | 5110020 | 10c6 | 8'-3" | 7'-0" | 19'-3 1/4" | 2'-9" | 9,580 | 1065 |
| | 24 | 5110021 | 10c6 | 20'-3" | 7'-6" | 21'-3 1/4" | 2'-9" | 9,890 | 1150 |
| | 26 | 5110022 | 10c6 | 22'-0" | 8'-0" | 23'-1 1/2" | 3'-0" | 10,190 | 1230 |
| | 28 | 5110023 | 12c8 | 23'-6" | 9'-0" | 24'-10 1/4" | 3'-6" | 10,320 | 1610 |
| | 30 | 5110024 | 12c8 | 25'-6" | 10'-0" | 27'-1" | 3'-6" | 10,100 | 1710 |
| 2 | 8 | 5110025 | 8 | | 2'-9" | 6'-0 1/2" | 1'-3" | 14,480 | 375 |
| | 10 | 5110026 | 8 | | 3'-0" | 7'-10" | 1'-6" | 17,170 | 435 |
| | 12 | 5110027 | 8 | | 3'-9" | 9'-8 1/2" | 1'-9" | 16,790 | 495 |
| | 14 | 5110028 | 8 | | 4'-6" | 11'-7 1/4" | 2'-0" | 16,590 | 550 |
| | 16 | 5110029 | 10 | | 5'-6" | 13'-6 1/2" | 2'-3" | 15,880 | 720 |
| | 18 | 5110030 | 10 | | 6'-0" | 15'-7 1/4" | 2'-3" | 16,570 | 795 |
| | 20 | 5110031 | 12 | | 6'-6" | 17'-4 1/2" | 2'-6" | 17,320 | 1000 |
| | 22 | 5110032 | 12c8 | 18'-6" | 7'-0" | 19'-5 1/2" | 2'-6" | 18,320 | 1420 |
| | 24 | 5110033 | 12c8 | 20'-0" | 7'-6" | 21'-0 1/2" | 3'-0" | 18,860 | 1535 |
| | 26 | 5110034 | 12c8 | 21'-6" | 8'-0" | 22'-7 1/4" | 3'-6" | 19,360 | 1650 |
| | 28 | 5110035 | 12c8 | 23'-6" | 9'-0" | 24'-10" | 3'-6" | 18,720 | 1760 |
| | 30 | 5110036 | 12c8 | 26'-0" | 10'-0" | 27'-6 1/4" | 3'-0" | 18,220 | 1895 |
| 3 | 8 | 5110037 | 8 | | 2'-9" | 6'-1 1/4" | 1'-3" | 21,600 | 435 |
| | 10 | 5110038 | 8 | | 3'-3" | 7'-11" | 1'-6" | 23,550 | 490 |
| | 12 | 5110039 | 10 | | 4'-0" | 9'-9 1/2" | 1'-9" | 23,570 | 630 |
| | 14 | 5110040 | 10 | | 4'-9" | 11'-8 1/4" | 2'-0" | 23,530 | 700 |
| | 16 | 5110041 | 10 | | 5'-6" | 13'-7" | 2'-3" | 23,510 | 765 |
| | 18 | 5110042 | 12 | | 6'-3" | 15'-8 1/4" | 2'-3" | 23,680 | 950 |
| | 20 | 5110043 | 12c8 | 16'-6" | 7'-0" | 17'-7 1/4" | 2'-6" | 24,060 | 1340 |
| | 22 | 5110044 | 12c8 | 18'-6" | 7'-9" | 19'-9" | 2'-6" | 24,140 | 1450 |
| | 24 | 5110045 | 12c8 | 20'-0" | 8'-6" | 21'-5" | 3'-0" | 24,220 | 1565 |
| | 26 | 5110046 | 12c8 | 22'-0" | 9'-3" | 23'-6 1/2" | 3'-0" | 24,310 | 1940 |
| | 28 | 5110047 | 12c8 | 24'-0" | 10'-0" | 25'-8" | 3'-0" | 24,410 | 2065 |
| | 30 | 5110048 | 12c8 | 26'-0" | 11'-0" | 27'-10 1/2" | 3'-0" | 23,950 | 2185 |
| 5 | 8 | 5110049 | 12 | | 3'-0" | 5'-10 1/4" | 1'-6" | 33,000 | 780 |
| | 10 | 5110050 | 12 | | 3'-3" | 7'-10" | 1'-6" | 39,260 | 860 |
| | 12 | 5110051 | 12 | | 4'-0" | 9'-7" | 1'-9" | 39,070 | 940 |
| | 14 | 5110052 | 12 | | 4'-9" | 11'-7 1/2" | 2'-0" | 38,970 | 1020 |
| | 16 | 5110053 | 15 | | 5'-6" | 13'-3" | 2'-6" | 39,180 | 1280 |
| | 18 | 5110054 | 15 | | 6'-3" | 14'-11" | 3'-0" | 39,150 | 1385 |
| | 20 | 5110055 | 15c10 | 15'-3" | 7'-0" | 16'-7" | 3'-6" | 39,660 | 1755 |
| | 22 | 5110056 | 15c10 | 17'-3" | 7'-9" | 18'-8 1/2" | 3'-6" | 39,740 | 1885 |
| | 24 | 5110057 | 15c10 | 19'-3" | 8'-6" | 20'-10 1/4" | 3'-6" | 39,850 | 2015 |
| | 26 | 5110058 | 15c10 | 21'-3" | 9'-3" | 23'-0" | 3'-6" | 39,960 | 2145 |
| | 28 | 5110059 | 15c10 | 23'-3" | 10'-0" | 25'-1 1/2" | 3'-6" | 40,070 | 2690 |
| | 30 | 5110060 | 15c10 | 25'-3" | 11'-0" | 27'-4 1/4" | 3'-6" | 39,280 | 2835 |

See page 51-41 for modifications and accessories.

All dimensions shown in inches.

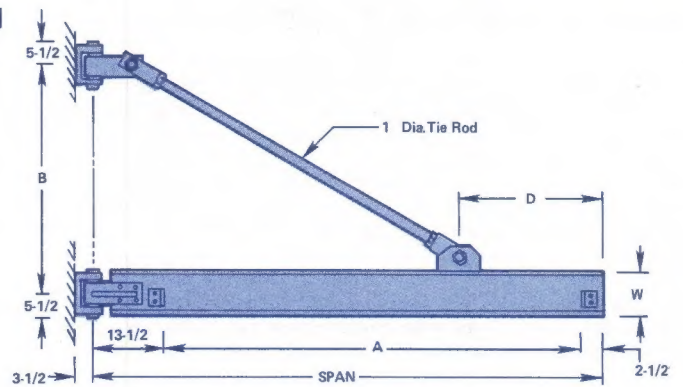
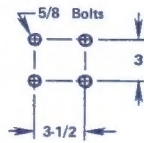


**SERIES 511 WALL BRACKET
JIB CRANE**
51-3 Issued 10-1-85

**1/2 to 5
TONS**

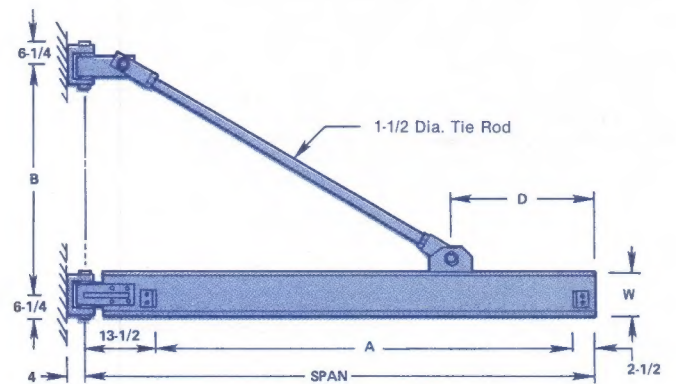
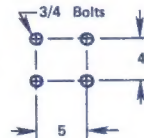
1/2 & 1 TON

**MOUNTING BOLT
PATTERN**



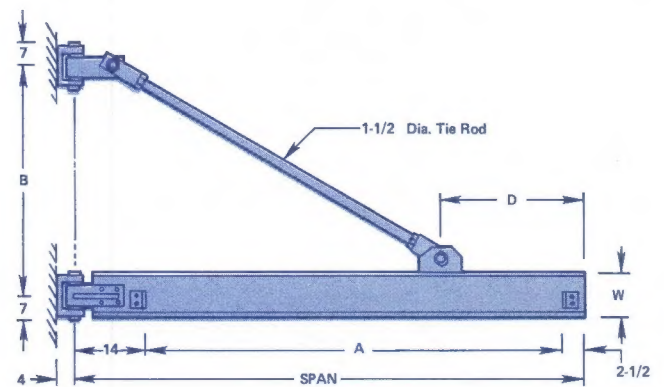
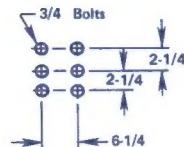
2 TON

**MOUNTING BOLT
PATTERN**



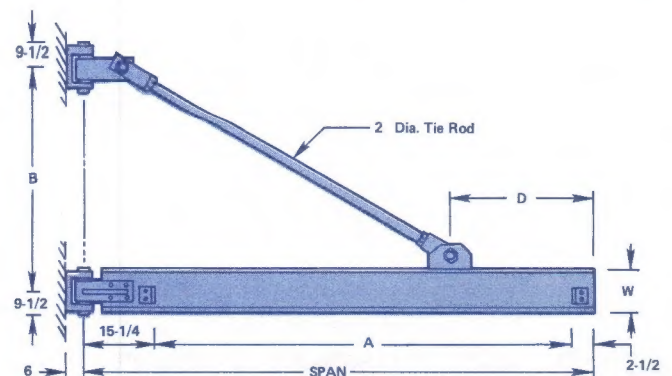
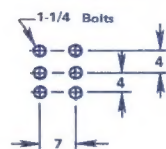
3 TON

**MOUNTING BOLT
PATTERN**



5 TON

**MOUNTING BOLT
PATTERN**



**1/2 to 5
TONS**

**SERIES 511 WALL BRACKET
JIB CRANE**

51-4

STANDARD EQUIPMENT SPECIFICATIONS

DESIGN FACTORS: Standard capacity ratings shall represent the net rated load at the hook of any type of hoist with the same load rating installed on the jib crane having a hoist trolley weight within the established limits. The jib crane shall be so designed in the load-carrying parts that the calculated static stress in the material based on the rated load, shall not exceed 20% of the published average ultimate strength of the material. This limitation of stress provides a margin to allow for variations in the properties of materials, manufacturing and operation conditions, and design assumptions. Design load for stress calculations shall be based upon the capacity plus 15% for the weight of the hoist and trolley and an additional 25% for impact (capacity X 1.4). However, under no condition shall the crane be loaded beyond its rated capacity.

S-BEAM: Boom beam shall be constructed in accord with AISC specifications. Under full load the beam deflection shall not exceed 1/150 of the span. Design load for deflection calculation shall be based upon the capacity plus 15% for the weight of the hoist and trolley (capacity X 1.15). Boom beam shall be selected structural steel member and shall provide level and straight tread surfaces for the hoist trolleys. The beam shall have adequate lateral stiffness with minimum lateral moment of inertia of 1/20 that of the vertical moment of inertia.

TIE RODS: The boom beam shall be supported through a single adjustable tension tie rod.

FITTINGS: The jib crane fittings shall be constructed with formed and fabricated steel and shall be designed that all load carrying parts will be in double shear. Each fitting shall be so designed and all parts shall be sized so that no bolts will be stressed beyond 10,000 P.S.I. shear stress. No load carrying weld shall be in tension.

BEARINGS: The radial load bearings shall be S.A.E. 600 bronze operating hardened bolts with pressure grease lubrication. The thrust bearing shall be olite bronze.

PAINTING: The jib crane shall be painted before shipment with a prime and finish coat of a lead-free alkyd air-dry enamel. The prime coat is a buff color with a semi-gloss finish. The finish coat is a yellow oxide with a full gloss finish.

OPERATING AND MAINTENANCE: Proper erection instructions, parts list and maintenance instructions will be furnished.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



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Acco Products Division

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51-5

SERIES 512

WALL CANTILEVER JIB CRANES

CAPACITIES 1/4 to 5 TONS
SPANS 8 to 20 FEET



The Acco Series 512 Wall Cantilever Jib Crane is recommended where maximum hoist lift and trolley travel are desired, provided adequate structural support exists. The Series 512 jib crane installs to a nominal minimum clearance of 3 inches to the underside of the lowest overhead obstruction. The jib crane is very desirable as a supplement to a regular traveling crane or monorail track, or for individual use in bays and along the wall or sides of shop areas. The Series 512 rotates 200°, servicing the area within the beam's span.

All fittings are of structural steel components manufactured to avoid reliance upon castings or tension welds. Components are bolted together using standard grade bolts for ease and economy of installation.

CONSTRUCTION FEATURES

TOP AND BOTTOM BRACKETS: The Series 512 jib crane is suspended from two identical brackets consisting of two components: a formed channel which is bolted to the structural support; a fabricated I shaped bracket with two heavy-duty bronze bushings pressed into it and a grease fitting for field lubrication. This bracket is butt-welded to the back of the mast. A heavy duty bronze thrust washer is provided for ease of rotation.

MAST BOOM: Standard I beams are used for both the mast and the boom. Stiffeners are placed at critical stress points in the mast, and removable trolley stops are bolted to the boom. Two styles of mast/boom connection are used on 512 Series jib cranes. When the bracket center dimension (B) is 6'0" or less, the connection is welded. If the bracket center dimension is greater than 6'0", a bolted connection is utilized for ease of shipment.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.

1/4 to 5 TONS

SERIES 512 WALL CANTILEVER JIB CRANES

51-6

| Capacity Tons | Span Ft. | Product Number | Bracket Center B Ft. | Beam Size W In. | A | L | Thrust and Pull Lbs. | Net Weight Lbs. |
|------------------|-------------|-------------------|----------------------------|-----------------------|-------------|---------|----------------------------|-----------------------|
| 1/4 | 8 | 5120001 | 3 | 6 | 6'-3 1/2" | 21 1/2" | 2,000 | 250 |
| | 10 | 5120002 | 3 | 6 | 8'-3 1/2" | 21 1/2" | 2,540 | 275 |
| | 12 | 5120003 | 3 | 6 | 10'-3 1/2" | 21 1/2" | 3,100 | 310 |
| | 14 | 5120004 | 3 | 7 | 12'-2 1/2" | 22 1/2" | 3,670 | 375 |
| | 16 | 5120005 | 3 | 8 | 14'-1 1/2" | 23 1/2" | 4,380 | 475 |
| | 18 | 5120006 | 4 | 8 | 16'-1 1/2" | 23 1/2" | 3,900 | 530 |
| | 20 | 5120007 | 4 | 10 | 17'-11 1/2" | 25 1/2" | 4,770 | 750 |
| 1/2 | 8 | 5120008 | 3 | 7 | 6'-2 1/2" | 22 1/2" | 3,900 | 280 |
| | 10 | 5120009 | 3 | 7 | 8'-2 1/2" | 22 1/2" | 4,920 | 315 |
| | 12 | 5120010 | 3 | 7 | 10'-2 1/2" | 22 1/2" | 5,970 | 350 |
| | 14 | 5120011 | 4 | 8 | 12'-1 1/2" | 23 1/2" | 5,350 | 455 |
| | 16 | 5120012 | 4 | 10 | 13'-11 1/2" | 25 1/2" | 6,410 | 650 |
| | 18 | 5120013 | 4 | 10 | 15'-11 1/2" | 25 1/2" | 7,330 | 700 |
| | 20 | 5120014 | 6 | 12 | 17'-9 1/2" | 27 1/2" | 5,730 | 965 |
| 1 | 8 | 5120015 | 4 | 8 | 6'-1 1/2" | 23 1/2" | 5,750 | 350 |
| | 10 | 5120016 | 5 | 10 | 7'-11 1/2" | 25 1/2" | 5,850 | 545 |
| | 12 | 5120017 | 5 | 10 | 9'-11 1/2" | 25 1/2" | 7,090 | 570 |
| | 14 | 5120018 | 5 | 10 | 11'-11 1/2" | 25 1/2" | 8,340 | 620 |
| | 16 | 5120019 | 6 | 12 | 13'-9 1/2" | 27 1/2" | 8,150 | 875 |
| | 18 | 5120020 | 6 | 15 | 15'-6 1/2" | 30 1/2" | 9,560 | 1205 |
| | 20 | 5120021 | 6 | 15 | 17'-6 1/2" | 30 1/2" | 10,760 | 1300 |
| 1 1/2 | 8 | 5120022 | 3 | 10 | 5'-11 1/2" | 26" | 11,400 | 440 |
| | 10 | 5120023 | 3 | 10 | 7'-11 1/2" | 26" | 14,420 | 485 |
| | 12 | 5120024 | 4 | 12 | 9'-9 1/2" | 28" | 13,060 | 665 |
| | 14 | 5120025 | 4 | 12 | 11'-9 1/2" | 28" | 15,330 | 750 |
| | 16 | 5120026 | 5 | 12 | 13'-9 1/2" | 28" | 14,250 | 845 |
| | 18 | 5120027 | 6 | 18 | 15'-3 1/2" | 34" | 13,760 | 1520 |
| | 20 | 5120028 | 6 | 18 | 17'-3 1/2" | 34" | 15,430 | 1630 |
| 2 | 8 | 5120029 | 4 | 12 | 5'-9 1/2" | 28" | 11,460 | 560 |
| | 10 | 5120030 | 4 | 12 | 7'-9 1/2" | 28" | 14,400 | 620 |
| | 12 | 5120031 | 4 | 15 | 9'-6 1/2" | 31" | 17,370 | 920 |
| | 14 | 5120032 | 5 | 15 | 11'-6 1/2" | 31" | 16,620 | 1035 |
| | 16 | 5120033 | 6 | 18 | 13'-3 1/2" | 34" | 16,100 | 1410 |
| | 18 | 5120034 | 6 | 18 | 15'-3 1/2" | 34" | 18,280 | 1560 |
| | 20 | 5120035 | 7 1/2 | 20 | 17'-1 1/2" | 36" | 16,680 | 2030 |
| 3 | 8 | 5120036 | 4 | 15 | 5'-6 1/2" | 31" | 17,140 | 770 |
| | 10 | 5120037 | 4 | 15 | 7'-6 1/2" | 31" | 21,540 | 860 |
| | 12 | 5120038 | 4 | 15 | 9'-6 1/2" | 31" | 25,970 | 945 |
| | 14 | 5120039 | 4 | 18 | 11'-3 1/2" | 34" | 29,750 | 1270 |
| | 16 | 5120040 | 6 1/2 | 18 | 13'-3 1/2" | 34" | 21,750 | 1565 |
| | 18 | 5120041 | 7 1/2 | 20 | 15'-1 1/2" | 36" | 21,570 | 1940 |
| | 20 | 5120042 | 9 1/2 | 24 | 16'-9 1/2" | 40" | 19,370 | 2640 |
| 4 | 8 | 5120043 | 4 | 15 | 5'-4 1/2" | 35" | 22,740 | 985 |
| | 10 | 5120044 | 6 1/2 | 18 | 7'-1 1/2" | 38" | 17,650 | 1390 |
| | 12 | 5120045 | 6 1/2 | 18 | 9'-1 1/2" | 38" | 21,280 | 1500 |
| | 14 | 5120046 | 6 1/2 | 18 | 11'-1 1/2" | 38" | 24,950 | 1610 |
| | 16 | 5120047 | 7 1/2 | 20 | 12'-11 1/2" | 40" | 25,010 | 2050 |
| | 18 | 5120048 | 9 1/2 | 24 | 14'-7 1/2" | 44" | 22,580 | 2790 |
| | 20 | 5120049 | 9 1/2 | 24 | 16'-7 1/2" | 44" | 25,260 | 2630 |
| 5 | 8 | 5120050 | 6 1/2 | 18 | 5'-1 1/2" | 38" | 17,500 | 1280 |
| | 10 | 5120051 | 6 1/2 | 18 | 7'-1 1/2" | 38" | 21,960 | 1385 |
| | 12 | 5120052 | 6 1/2 | 20 | 8'-11 1/2" | 40" | 26,450 | 1720 |
| | 14 | 5120053 | 7 1/2 | 20 | 10'-11 1/2" | 40" | 26,990 | 1920 |
| | 16 | 5120054 | 9 1/2 | 24 | 12'-7 1/2" | 44" | 24,660 | 2365 |
| | 18 | 5120055 | 9 1/2 | 24 | 14'-7 1/2" | 44" | 27,890 | 2500 |
| | 20 | 5120056 | 9 1/2 | 24 | 16'-7 1/2" | 44" | 31,160 | 2630 |

All dimensions shown in inches.

See page 51-41 for modification and accessories.

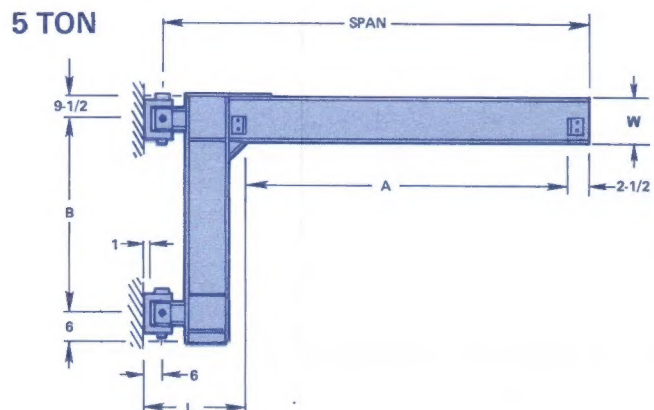
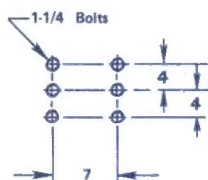
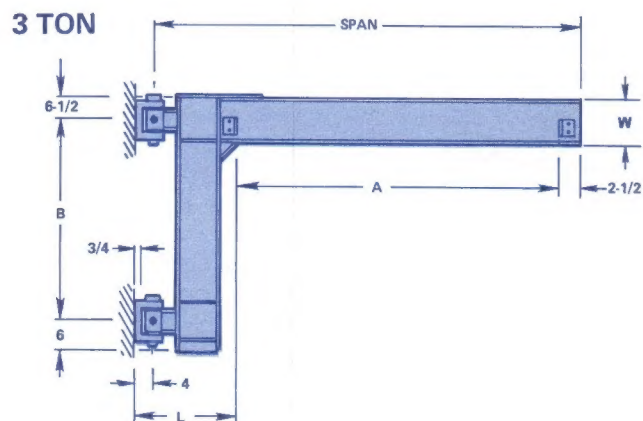
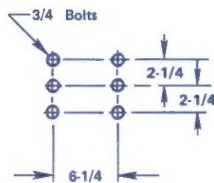
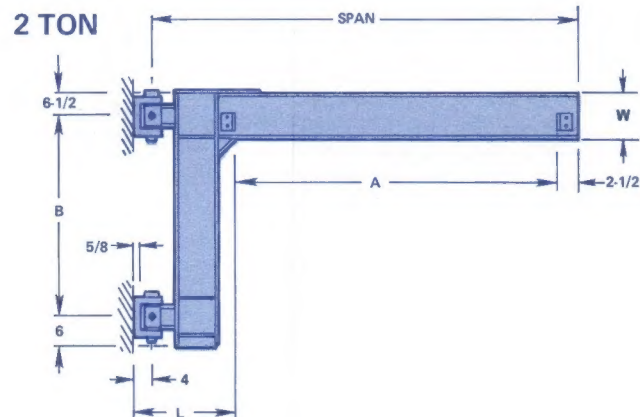
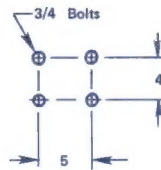
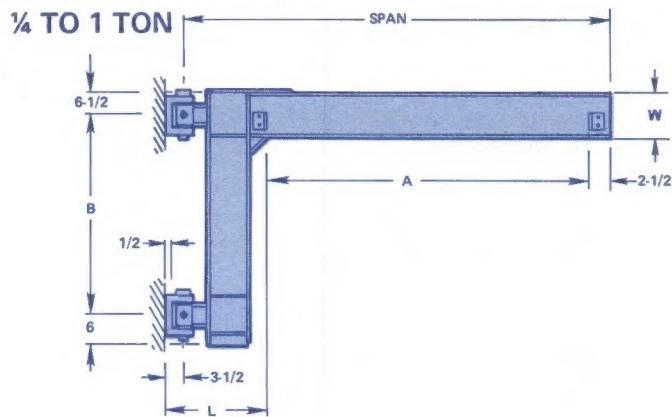
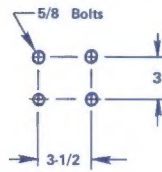


SERIES 512 WALL CANTILEVER JIB CRANES

51-7 Issued 10-1-85

**1/4 to 5
TONS**

MOUNTING BOLT PATTERN



See facing page for additional dimensions. All dimensions shown in inches.

**1/4 to 5
TONS**

**SERIES 512 WALL CANTILEVER
JIB CRANE**

51-8

STANDARD EQUIPMENT SPECIFICATIONS

DESIGN FACTORS: Standard capacity ratings shall represent the net rated load at the hook of any type of hoist with the same load rating installed on the jib crane having a hoist trolley weight within the established limits. The jib crane shall be so designed in the load-carrying parts that the calculated static stress in the material based on the rated load, shall not exceed 20% of the published average ultimate strength of the material. This limitation of stress provides a margin to allow for variations in the properties of materials, manufacturing and operation conditions, and design assumptions. Design load for stress calculations shall be based upon the capacity plus 15% for the weight of the hoist and trolley and an additional 25% for impact (capacity X 1.4). However, under no condition shall the crane be loaded beyond its rated capacity.

S-BEAM: Boom beam shall be constructed in accord with AISC specifications. Under full load the beam deflection shall not exceed 1/150 of the span. Design load for deflection calculation shall be based upon the capacity plus 15% for the weight of the hoist and trolley (capacity X 1.15). Boom beam shall be selected structural steel member and shall provide level and straight tread surfaces for the hoist trolleys. The beam shall have adequate lateral stiffness with minimum lateral moment of inertia of 1/20 that of the vertical moment of inertia.

FITTINGS: The jib crane fittings shall be constructed with formed and fabricated steel and shall be designed that all load carrying parts will be in double shear. Each fitting shall be so designed and all parts shall be sized so that no bolts will be stressed beyond 10,000 P.S.I. shear stress.

BEARINGS: The radial load bearings shall be S.A.E. 600 bronze operating hardened bolts with pressure grease lubrication. The thrust bearing shall be olite bronze.

PAINTING: The jib crane shall be painted before shipment with a prime and finish coat of a lead-free alkyd air-dry enamel. The prime coat is a buff color with a semi-gloss finish. The finish coat is a yellow oxide with a full gloss finish.

OPERATING AND MAINTENANCE: Proper erection instructions, parts list and maintenance instructions will be furnished with the crane.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



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Acco Products Division

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51-9

SERIES 513 **360° BASE MOUNTED** **FREE STANDING JIB CRANES** CAPACITIES 1/4 to 5 TONS SPANS 8 to 20 FEET



The Acco Series 513 Base Mounted Jib Crane is designed for use with hoists in applications where defined area coverage is required or as a supplement to overhead traveling cranes. The free standing models offer up to 360° continuous rotation without being attached to the building structure. The base mounted pillar jib crane is rigidly supported by a base plate with reinforced gussets which must be bolted to suitable reinforced concrete floor. The jib crane is designed with lower trunnion roller bearings plus a thrust bearing at the top of the pillar. They are designed to meet maximum radial and thrust loads. The lower trunnion roller assembly is adjustable for ease of leveling the boom during field installation.

The head assembly has a retaining pin above the bearing assembly to protect against incidental dislodgement of the head from the mast. The assembly can be installed independently of the boom. This minimizes the necessary overhead room required for installation.

The jib crane, when combined with an electric hoist, can be electrified by means of a commutator enclosed in the hood and festoon electrification arrangement suitable for NEMA 1 indoor service or NEMA 3R outdoor service.

CONSTRUCTION FEATURES

HEAD ASSEMBLY: The design of the Series 513 head assembly as an independent assembly which rotates about the pin in the top of the mast pipe, allows installation of the head separate from the boom, thus decreasing required overhead clearance during installation. A structural channel joins the two sides of the head assembly in the rear of the head and resists dislodgement of the head in the event the boom is lifted.

TOP PIVOT BEARING: Connection of the head assembly to the mast pipe is made via the top pivot assembly. The top pivot assembly incorporates a bearing plate connecting the two sides of the head assembly approximately 8 inches below the top of the head. The plate supports a Timken tapered roller bearing to provide the greatest ease of rotation. A retaining pin is provided through the pivot pin above the bearing plate to resist dislodgement of the head.

Recessing the pivot assembly within the head assembly reduces the clearance required for installation and allows the addition of a bottom entry collector assembly for electrification from 360° rotation either initially or as a simple field modification. The collector assembly is thus completely enclosed within the head assembly.

TRUNNION ROLLER ASSEMBLY: This assembly provides a second bearing point within the head assembly which transmits the moment exerted on the boom to the mast pipe, while providing for ease of rotation. Two capacities of trunnion roller assemblies are utilized in Free-Standing Jib Cranes. Type 1 consists of a single formed channel and two rollers and is used on all cranes up to and including 2 tons of capacity. Type 2 utilizes two sets of articulated rollers mounted to the formed channel. The mounting bracket assembly is connected to the head via threaded rod for easy level adjustment of the boom during installation. Grease fittings on the bearings allow for simple field lubrication. Series 513 Jib Crane masts are constructed from structural pipe.

BOOM: Boom is constructed from standard S-Beams, reinforced where necessary with channel capping for added strength and lateral stability. A back plate welded to the boom, and an angle welded to the front of the head assembly serve as connecting points for the bolted connection of boom and head assembly. This allows boom and head assembly to be shipped and installed separately.

BASE PLATE: A hexagonal base plate is welded to the base of the mast pipe and reinforced with six gusset plates equally spaced about the circumference of the mast. The base plate must be mounted via anchor bolts to a structurally adequate, reinforced foundation.

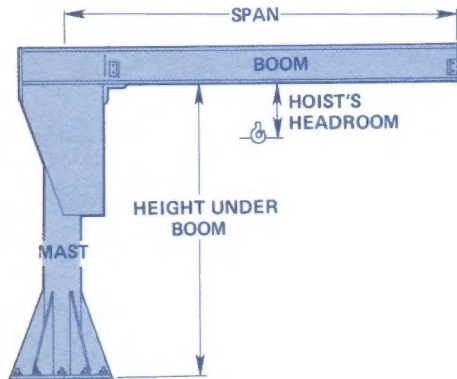
1/4 to 5 TONS

SERIES 513 360° BASE MOUNTED FREE STANDING JIB CRANES

51-10

HOW TO SPECIFY ACCO SERIES 513 BASE MOUNTED FREE STANDING JIB CRANE.

1. Determine the capacity, span of boom, and height under boom required.



2. Specify proper product number in regards to jib crane capacity, span, and under boom height found in following pages.
3. Specify diameter of the mast. Series 513 Jib Cranes are designed with a standard range of mast diameters. The first number under product number designates mast's diameter (dimension E). By using this number, the bolt circle diameter, bolt pattern, the number and size of bolts, and the size and shape of the base plate used for each particular size mast may be found in the following chart.

| STANDARD MAST DATA | | | | | | | | | |
|---------------------------------|------------|-----------|----------|----------|-----------|-----------|---------------------|----------|----------|
| Diameter of Mast E in. | Dimensions | | | | | | Anchor Bolt Pattern | | |
| | G1 in. | G2 in. | J in. | K in. | H1 in. | H2 in. | Quantity | D in. | Q in. |
| 8 | 10 | 20 | 10 3/8 | 10 | 46 3/4 | 4 | 6 | 1 | 24 |
| 12 | 8 1/2 | 20 | 12 7/8 | 12 1/2 | 71 3/4 | 6 | 6 | 1 1/4 | 24 |
| 14 | 11 | 22 | 15 3/8 | 15 | 72 | 8 | 6 | 1 1/4 | 30 |
| 16 | 13 | 26 | 17 3/8 | 17 | 72 | 8 | 12 | 1 1/4 | 36 |
| 18 | 15 | 30 | 17 3/8 | 17 | 72 | 9 | 12 | 1 1/4 | 42 |
| 20 | 17 | 34 | 17 7/8 | 17 1/2 | 72 | 10 | 12 | 1 1/4 | 48 |
| 24 | 18 | 36 | 22 7/8 | 22 1/2 | 72 | 12 | 12 | 1 1/4 | 54 |
| 30 | 18 | 36 | 25 3/8 | 25 | 84 | 12 | 12 | 1 1/4 | 60 |

4. Specify height of the boom. The second number under the product number designates depth of the boom, W. By using this number, the size and flange width may be found in following chart.

| STANDARD BOOM DATA | | |
|---------------------|-----------|------------------------|
| Boom Height W | Beam Size | Flange Width in. |
| 6 | 6S12.5# | 3 3/8 |
| 7 | 7S15.3# | 3 5/8 |
| 8 | 8S18.4# | 4 |
| 10 | 10S25.4# | 4 5/8 |
| 12 | 12S31.8# | 5 |
| 15 | 15S42.9# | 5 1/2 |
| 18 | 18S54.7# | 6 |
| 20 | 20S66 # | 6 1/4 |
| 24 | 24S80 # | 7 |

5. Specify foundation requirements. A structurally reinforced foundation is required to support the mounting of the free standing jib crane. When the load is applied to the jib crane, this puts a moment on the foundation which must be of sufficient size to resist the compression and tension forces. See the following chart for size and location requirement for proper installation.

| STANDARD FOOTING REQUIREMENTS | | | |
|-------------------------------|-------------|----------------|----------------|
| Capacity Tons | Span ft. | Footing Size | |
| | | Width ft. M | Depth ft. L |
| 1/4 | 8-13 | 4 | 3 |
| | 14-20 | 4 | 4 |
| 1/2 | 8-12 | 4 | 4 |
| | 13-20 | 5 | 4 |
| 1 | 8-10 | 5 | 4 |
| | 11-15 | 6 | 4 |
| | 16-20 | 7 | 4 |
| 1 1/2 | 8-12 | 6 | 4 |
| | 13-15 | 7 | 4 |
| | 16-20 | 8 | 4 |
| 2 | 8-11 | 6 | 4 |
| | 12-15 | 7 | 4 |
| | 16-20 | 8 | 4 |
| 3 | 8-16 | 8 | 4 |
| | 17-20 | 9 | 4 |
| 4 | 8-13 | 8 | 4 |
| | 14-20 | 10 | 4 |
| 5 | 8-14 | 9 | 4 |
| | 15-18 | 10 | 4 |
| | 19-20 | 10 | 5 |

Jib crane foundation requirements are based on a soil pressure of 2500# per square foot. Concrete recommended for jib crane foundation is 3000# per square inch of compressive concrete.

6. Select desired Acco hoist.
Section 10 for Hand Operated Hoist, 1/4 to 5 tons
Section 20 for *Wright-Way*® Electric Hoist, 1/4 to 2 tons
Section 21 for *Wright-Way* Air Operated Hoist, 1/4 to 2 tons
Section 30 for *Work-Rated*® Electric Hoist, 1 to 5 tons
7. Specify other modifications and accessories. See page 51-41 for further specifications.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

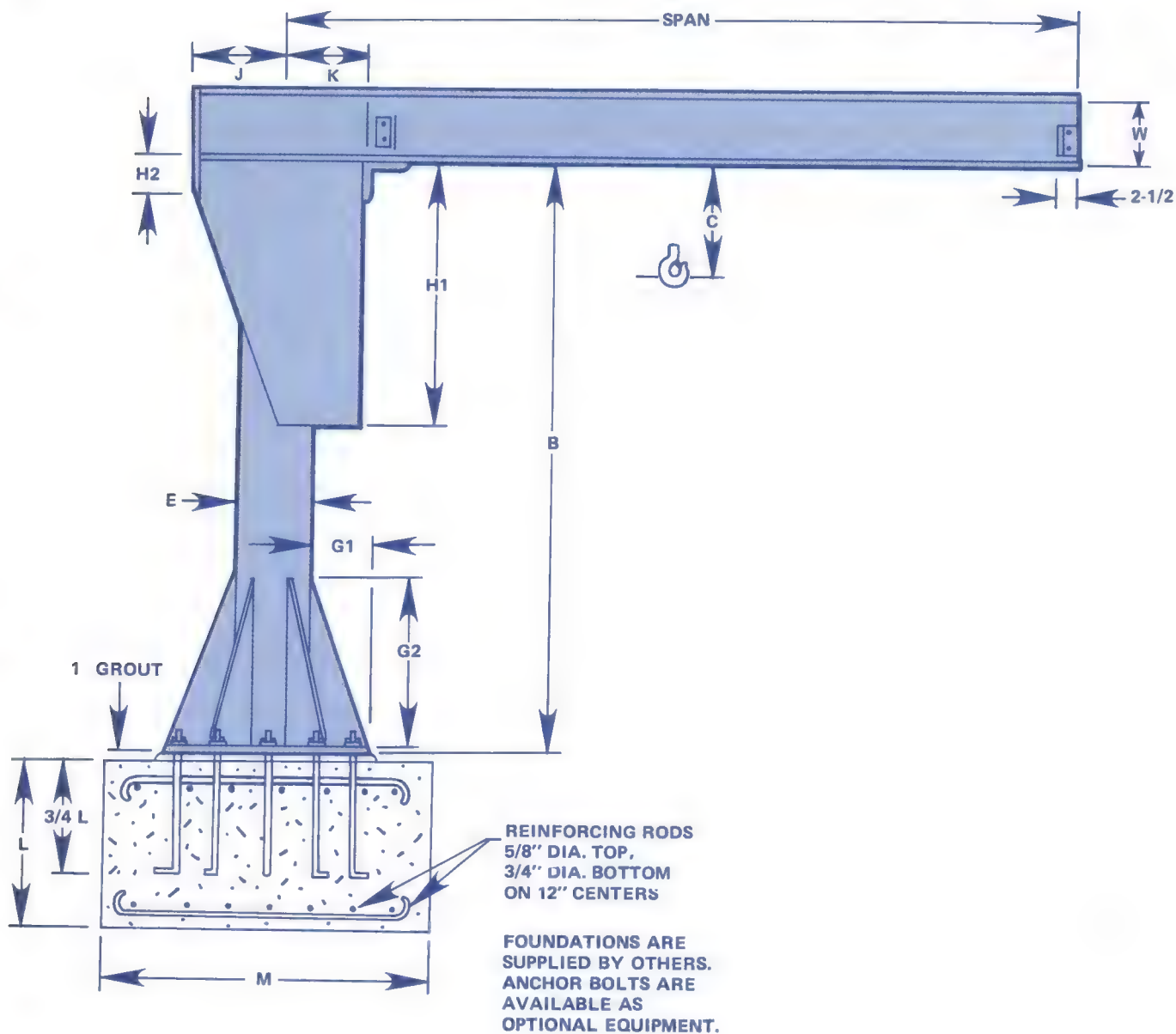
WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



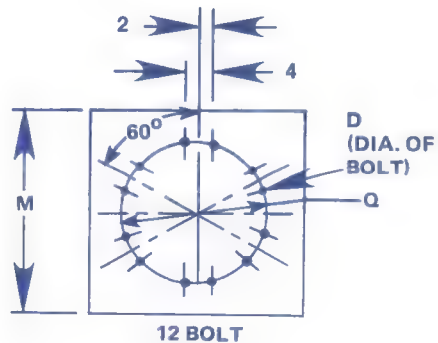
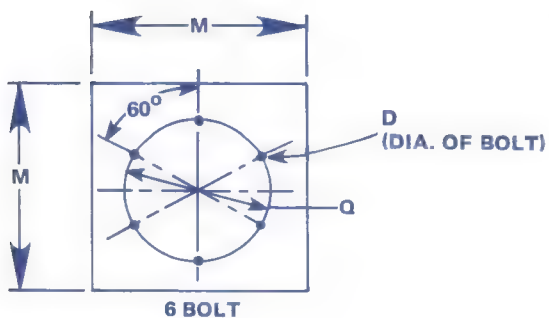
**SERIES 513 360° BASE MOUNTED
FREE STANDING JIB CRANES**

51-11 Issued 10-1-85

**1/4 to 5
TONS**



BOLT PATTERN



All dimensions shown in inches.

1/4 TON

SERIES 513 360° BASE MOUNTED FREE STANDING JIB CRANES

51-12

| Height Under Boom in ft. B | | SPAN in feet A | | | | | | | | | | | | |
|--|-----------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 8 | Prod. No. | 5130001 | 5130002 | 5130003 | 5130004 | 5130005 | 5130006 | 5130007 | 5130008 | 5130009 | 5130010 | 5130011 | 5130012 | 5130013 |
| | Mast, E | 8 | 8 | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 815 | 830 | 845 | 850 | 860 | 1205 | 1220 | 1240 | 1260 | 1280 | 1420 | 1450 | 1480 |
| 9 | Prod. No. | 5130014 | 5130015 | 5130016 | 5130017 | 5130018 | 5130019 | 5130020 | 5130021 | 5130022 | 5130023 | 5130024 | 5130025 | 5130026 |
| | Mast, E | 8 | 8 | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 840 | 855 | 865 | 875 | 885 | 1235 | 1255 | 1275 | 1295 | 1310 | 1455 | 1485 | 1510 |
| 10 | Prod. No. | 5130027 | 5130028 | 5130029 | 5130030 | 5130031 | 5130032 | 5130033 | 5130034 | 5130035 | 5130036 | 5130037 | 5130038 | 5130039 |
| | Mast, E | 8 | 8 | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 865 | 885 | 895 | 905 | 915 | 1265 | 1285 | 1300 | 1320 | 1340 | 1485 | 1510 | 1540 |
| 11 | Prod. No. | 5130040 | 5130041 | 5130042 | 5130043 | 5130044 | 5130045 | 5130046 | 5130047 | 5130048 | 5130049 | 5130050 | 5130051 | 5130052 |
| | Mast, E | 8 | 8 | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 895 | 915 | 925 | 935 | 940 | 1300 | 1315 | 1335 | 1355 | 1375 | 1515 | 1545 | 1575 |
| 12 | Prod. No. | 5130053 | 5130054 | 5130055 | 5130056 | 5130057 | 5130058 | 5130059 | 5130060 | 5130061 | 5130062 | 5130063 | 5130064 | 5130065 |
| | Mast, E | 8 | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 920 | 935 | 945 | 955 | 1220 | 1325 | 1345 | 1365 | 1385 | 1405 | 1545 | 1575 | 1600 |
| 13 | Prod. No. | 5130066 | 5130067 | 5130068 | 5130069 | 5130070 | 5130071 | 5130072 | 5130073 | 5130074 | 5130075 | 5130076 | 5130077 | 5130078 |
| | Mast, E | 8 | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 945 | 965 | 975 | 985 | 1255 | 1360 | 1380 | 1400 | 1420 | 1435 | 1580 | 1605 | 1950 |
| 14 | Prod. No. | 5130079 | 5130080 | 5130081 | 5130082 | 5130083 | 5130084 | 5130085 | 5130086 | 5130087 | 5130088 | 5130089 | 5130090 | 5130091 |
| | Mast, E | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 970 | 990 | 1000 | 1010 | 1285 | 1390 | 1410 | 1425 | 1445 | 1465 | 1605 | 1635 | 1990 |
| 15 | Prod. No. | 5130092 | 5130093 | 5130094 | 5130095 | 5130096 | 5130097 | 5130098 | 5130099 | 5130100 | 5130101 | 5130102 | 5130103 | 5130104 |
| | Mast, E | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 1000 | 1020 | 1030 | 1040 | 1315 | 1420 | 1440 | 1460 | 1480 | 1500 | 1640 | 2005 | 2035 |
| 16 | Prod. No. | 5130105 | 5130106 | 5130107 | 5130108 | 5130109 | 5130110 | 5130111 | 5130112 | 5130113 | 5130114 | 5130115 | 5130116 | 5130117 |
| | Mast, E | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 1030 | 1045 | 1055 | 1340 | 1350 | 1455 | 1475 | 1495 | 1510 | 1530 | 1675 | 2050 | 2075 |
| 17 | Prod. No. | 5130118 | 5130119 | 5130120 | 5130121 | 5130122 | 5130123 | 5130124 | 5130125 | 5130126 | 5130127 | 5130128 | 5130129 | 5130130 |
| | Mast, E | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 1050 | 1070 | 1080 | 1370 | 1380 | 1485 | 1500 | 1520 | 1540 | 1920 | 2065 | 2090 | 2120 |
| 18 | Prod. No. | 5130131 | 5130132 | 5130133 | 5130134 | 5130135 | 5130136 | 5130137 | 5130138 | 5130139 | 5130140 | 5130141 | 5130142 | 5130143 |
| | Mast, E | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 1080 | 1100 | 1365 | 1400 | 1410 | 1515 | 1535 | 1555 | 1950 | 1970 | 2110 | 2140 | 2170 |
| 19 | Prod. No. | 5130144 | 5130145 | 5130146 | 5130147 | 5130148 | 5130149 | 5130150 | 5130151 | 5130152 | 5130153 | 5130154 | 5130155 | 5130156 |
| | Mast, E | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 16 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 1115 | 1025 | 1415 | 1430 | 1440 | 1545 | 1565 | 1975 | 1990 | 2010 | 2150 | 2180 | 2855 |
| 20 | Prod. No. | 5130157 | 5130158 | 5130159 | 5130160 | 5130161 | 5130162 | 5130163 | 5130164 | 5130165 | 5130166 | 5130167 | 5130168 | 5130169 |
| | Mast, E | 8 | 8 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 14 | 16 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 1130 | 1150 | 1450 | 1465 | 1475 | 1580 | 1995 | 2015 | 2035 | 2055 | 2195 | 2225 | 2920 |

All dimensions shown in inches.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



SERIES 513 360° BASE MOUNTED FREE STANDING JIB CRANES

51-13 Issued 10-1-85

**1/2
TON**

| Height Under Boom in ft. B | | SPAN in feet A | | | | | | | | | | | | |
|----------------------------|-----------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 8 | Prod. No. | 5130170 | 5130171 | 5130172 | 5130173 | 5130174 | 5130175 | 5130176 | 5130177 | 5130178 | 5130179 | 5130180 | 5130181 | 5130182 |
| | Mast, E | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| | Boom, W | 6 | 6 | 6 | 7 | 7 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 |
| | Weight | 815 | 830 | 840 | 880 | 1140 | 1205 | 1220 | 1355 | 1380 | 1400 | 1420 | 1580 | 1640 |
| 9 | Prod. No. | 5130183 | 5130184 | 5130185 | 5130186 | 5130187 | 5130188 | 5130189 | 5130190 | 5130191 | 5130192 | 5130193 | 5130194 | 5130195 |
| | Mast, E | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 |
| | Boom, W | 6 | 6 | 6 | 7 | 7 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 |
| | Weight | 840 | 855 | 865 | 910 | 1170 | 1235 | 1255 | 1385 | 1410 | 1435 | 1460 | 1880 | 1905 |
| 10 | Prod. No. | 5130196 | 5130197 | 5130198 | 5130199 | 5130200 | 5130201 | 5130202 | 5130203 | 5130204 | 5130205 | 5130206 | 5130207 | 5130208 |
| | Mast, E | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 |
| | Boom, W | 6 | 6 | 6 | 7 | 7 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 |
| | Weight | 865 | 885 | 895 | 1175 | 1205 | 1270 | 1285 | 1415 | 1440 | 1465 | 1490 | 1920 | 1955 |
| 11 | Prod. No. | 5130209 | 5130210 | 5130211 | 5130212 | 5130213 | 5130214 | 5130215 | 5130216 | 5130217 | 5130218 | 5130219 | 5130220 | 5130221 |
| | Mast, E | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| | Boom, W | 6 | 6 | 6 | 7 | 7 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 |
| | Weight | 895 | 915 | 1170 | 1210 | 1235 | 1300 | 1315 | 1450 | 1475 | 1500 | 1805 | 1965 | 1995 |
| 12 | Prod. No. | 5130222 | 5130223 | 5130224 | 5130225 | 5130226 | 5130227 | 5130228 | 5130229 | 5130230 | 5130231 | 5130232 | 5130233 | 5130234 |
| | Mast, E | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| | Boom, W | 6 | 6 | 6 | 7 | 7 | 8 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 920 | 935 | 1200 | 1235 | 1265 | 1330 | 1560 | 1590 | 1615 | 1645 | 2185 | 2235 | 2280 |
| 13 | Prod. No. | 5130235 | 5130236 | 5130237 | 5130238 | 5130239 | 5130240 | 5130241 | 5130242 | 5130243 | 5130244 | 5130245 | 5130246 | 5130247 |
| | Mast, E | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 |
| | Boom, W | 6 | 6 | 6 | 7 | 7 | 8 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 945 | 965 | 1235 | 1270 | 1300 | 1360 | 1590 | 1615 | 1645 | 1995 | 2235 | 2280 | 2330 |
| 14 | Prod. No. | 5130248 | 5130249 | 5130250 | 5130251 | 5130252 | 5130253 | 5130254 | 5130255 | 5130256 | 5130257 | 5130258 | 5130259 | 5130260 |
| | Mast, E | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 |
| | Boom, W | 6 | 6 | 6 | 7 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 970 | 990 | 1265 | 1295 | 1470 | 1500 | 1620 | 1650 | 1680 | 2040 | 2275 | 2325 | 2370 |
| 15 | Prod. No. | 5130261 | 5130262 | 5130263 | 5130264 | 5130265 | 5130266 | 5130267 | 5130268 | 5130269 | 5130270 | 5130271 | 5130272 | 5130273 |
| | Mast, E | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 |
| | Boom, W | 6 | 6 | 6 | 7 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 1000 | 1280 | 1300 | 1325 | 1500 | 1525 | 1650 | 1685 | 2055 | 2080 | 2320 | 2365 | 2415 |
| 16 | Prod. No. | 5130274 | 5130275 | 5130276 | 5130277 | 5130278 | 5130279 | 5130280 | 5130281 | 5130282 | 5130283 | 5130284 | 5130285 | 5130286 |
| | Mast, E | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 |
| | Boom, W | 6 | 6 | 6 | 7 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 1030 | 1310 | 1325 | 1360 | 1530 | 1560 | 1685 | 1710 | 2095 | 2125 | 2360 | 2410 | 3060 |
| 17 | Prod. No. | 5130287 | 5130288 | 5130289 | 5130290 | 5130291 | 5130292 | 5130293 | 5130294 | 5130295 | 5130296 | 5130297 | 5130298 | 5130299 |
| | Mast, E | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 |
| | Boom, W | 6 | 6 | 6 | 7 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 1050 | 1340 | 1355 | 1395 | 1560 | 1590 | 1710 | 2110 | 2140 | 2170 | 2405 | 3080 | 3116 |
| 18 | Prod. No. | 5130300 | 5130301 | 5130302 | 5130303 | 5130304 | 5130305 | 5130306 | 5130307 | 5130308 | 5130309 | 5130310 | 5130311 | 5130312 |
| | Mast, E | 8 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| | Boom, W | 6 | 6 | 6 | 7 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 1080 | 1370 | 1390 | 1420 | 1600 | 1620 | 2120 | 2160 | 2185 | 2855 | 3095 | 3140 | 3180 |
| 19 | Prod. No. | 5130313 | 5130314 | 5130315 | 5130316 | 5130317 | 5130318 | 5130319 | 5130320 | 5130321 | 5130322 | 5130323 | 5130324 | 5130325 |
| | Mast, E | 8 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| | Boom, W | 6 | 6 | 6 | 7 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 1105 | 1400 | 1420 | 1450 | 1620 | 2050 | 2160 | 2200 | 2230 | 2915 | 3150 | 3200 | 3235 |
| 20 | Prod. No. | 5130326 | 5130327 | 5130328 | 5130329 | 5130330 | 5130331 | 5130332 | 5130333 | 5130334 | 5130335 | 5130336 | 5130337 | 5130338 |
| | Mast, E | 8 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| | Boom, W | 6 | 6 | 6 | 7 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 1130 | 1430 | 1450 | 1485 | 2060 | 2090 | 2205 | 2245 | 2270 | 2975 | 3210 | 3260 | 3300 |

All dimensions shown in inches.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.

1 TON

SERIES 513 360° BASE MOUNTED FREE STANDING JIB CRANES

51-14

| Height Under Boom in ft. B | | SPAN in feet A | | | | | | | | | | | | |
|----------------------------|-----------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 8 | Prod. No. | 5130339 | 5130340 | 5130341 | 5130342 | 5130343 | 5130344 | 5130345 | 5130346 | 5130347 | 5130348 | 5130349 | 5130350 | 5130351 |
| | Mast, E | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| | Boom, W | 7 | 8 | 8 | 8 | 10 | 12 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 1025 | 1075 | 1095 | 1125 | 1215 | 1560 | 1590 | 1615 | 1645 | 1670 | 1900 | 1935 | 1975 |
| 9 | Prod. No. | 5130352 | 5130353 | 5130354 | 5130355 | 5130356 | 5130357 | 5130358 | 5130359 | 5130360 | 5130361 | 5130362 | 5130363 | 5130364 |
| | Mast, E | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| | Boom, W | 7 | 8 | 8 | 8 | 10 | 12 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 1055 | 1110 | 1120 | 1140 | 1245 | 1605 | 1630 | 1660 | 1690 | 1715 | 1940 | 1980 | 2020 |
| 10 | Prod. No. | 5130365 | 5130366 | 5130367 | 5130368 | 5130369 | 5130370 | 5130371 | 5130372 | 5130373 | 5130374 | 5130375 | 5130376 | 5130377 |
| | Mast, E | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| | Boom, W | 7 | 8 | 8 | 8 | 10 | 12 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 1085 | 1135 | 1155 | 1165 | 1275 | 1645 | 1670 | 1700 | 1730 | 1755 | 1985 | 2020 | 2060 |
| 11 | Prod. No. | 5130378 | 5130379 | 5130380 | 5130381 | 5130382 | 5130383 | 5130384 | 5130385 | 5130386 | 5130387 | 5130388 | 5130389 | 5130390 |
| | Mast, E | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| | Boom, W | 7 | 8 | 8 | 8 | 10 | 12 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 1115 | 1165 | 1180 | 1200 | 1300 | 1685 | 1715 | 1745 | 1770 | 2285 | 2505 | 2550 | 2585 |
| 12 | Prod. No. | 5130391 | 5130392 | 5130393 | 5130394 | 5130395 | 5130396 | 5130397 | 5130398 | 5130399 | 5130400 | 5130401 | 5130402 | 5130403 |
| | Mast, E | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 |
| | Boom, W | 7 | 8 | 8 | 8 | 10 | 12 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 1145 | 1195 | 1210 | 1495 | 1620 | 1725 | 1755 | 1785 | 2315 | 2340 | 2565 | 2600 | 2640 |
| 13 | Prod. No. | 5130404 | 5130405 | 5130406 | 5130407 | 5130408 | 5130409 | 5130410 | 5130411 | 5130412 | 5130413 | 5130414 | 5130415 | 5130416 |
| | Mast, E | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 |
| | Boom, W | 7 | 8 | 8 | 8 | 10 | 12 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 1170 | 1225 | 1245 | 1555 | 1660 | 1765 | 1795 | 1825 | 2375 | 2400 | 2620 | 2660 | 2700 |
| 14 | Prod. No. | 5130417 | 5130418 | 5130419 | 5130420 | 5130421 | 5130422 | 5130423 | 5130424 | 5130425 | 5130426 | 5130427 | 5130428 | 5130429 |
| | Mast, E | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 18 | 18 | 18 |
| | Boom, W | 7 | 8 | 8 | 8 | 10 | 12 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 1205 | 1250 | 1270 | 1595 | 1695 | 1805 | 1840 | 2400 | 2430 | 2460 | 2995 | 3030 | 3070 |
| 15 | Prod. No. | 5130430 | 5130431 | 5130432 | 5130433 | 5130434 | 5130435 | 5130436 | 5130437 | 5130438 | 5130439 | 5130440 | 5130441 | 5130442 |
| | Mast, E | 12 | 12 | 12 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 |
| | Boom, W | 7 | 8 | 8 | 8 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 1230 | 1285 | 1300 | 1640 | 1740 | 2320 | 2425 | 2455 | 2450 | 2825 | 3050 | 3090 | 3135 |
| 16 | Prod. No. | 5130443 | 5130444 | 5130445 | 5130446 | 5130447 | 5130448 | 5130449 | 5130450 | 5130451 | 5130452 | 5130453 | 5130454 | 5130455 |
| | Mast, E | 12 | 12 | 12 | 14 | 14 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 18 |
| | Boom, W | 7 | 8 | 8 | 8 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 1260 | 1315 | 1335 | 1685 | 1785 | 2380 | 2485 | 2510 | 2865 | 2890 | 3115 | 3050 | 3195 |
| 17 | Prod. No. | 5130456 | 5130457 | 5130458 | 5130459 | 5130460 | 5130461 | 5130462 | 5130463 | 5130464 | 5130465 | 5130466 | 5130467 | 5130468 |
| | Mast, E | 12 | 12 | 14 | 16 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 18 |
| | Boom, W | 7 | 8 | 8 | 8 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 1295 | 1345 | 1705 | 2310 | 2410 | 2435 | 2545 | 2570 | 2925 | 2955 | 3180 | 3215 | 3260 |
| 18 | Prod. No. | 5130469 | 5130470 | 5130471 | 5130472 | 5130473 | 5130474 | 5130475 | 5130476 | 5130477 | 5130478 | 5130479 | 5130480 | 5130481 |
| | Mast, E | 12 | 12 | 14 | 16 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 18 |
| | Boom, W | 7 | 8 | 8 | 8 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 1320 | 1375 | 1745 | 2365 | 2465 | 2490 | 2600 | 2625 | 2990 | 3015 | 3240 | 3275 | 3320 |
| 19 | Prod. No. | 5130482 | 5130483 | 5130484 | 5130485 | 5130486 | 5130487 | 5130488 | 5130489 | 5130490 | 5130491 | 5130492 | 5130493 | 5130494 |
| | Mast, E | 12 | 12 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 20 | 20 | 20 | 20 |
| | Boom, W | 7 | 8 | 8 | 8 | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 15 |
| | Weight | 1350 | 1405 | 1790 | 2420 | 2520 | 2550 | 2655 | 3025 | 3050 | 4000 | 4040 | 4095 | 4120 |
| 20 | Prod. No. | 5130495 | 5130496 | 5130497 | 5130498 | 5130499 | 5130500 | 5130501 | 5130502 | 5130503 | 5130504 | 5130505 | 5130506 | 5130507 |
| | Mast, E | 12 | 12 | 14 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 | 20 | 20 |
| | Boom, W | 7 | 8 | 8 | 8 | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 15 |
| | Weight | 1380 | 1430 | 1830 | 2475 | 2540 | 2745 | 3060 | 3090 | 3115 | 4095 | 4130 | 4170 | 4265 |

All dimension shown in inches.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



SERIES 513 360° BASE MOUNTED FREE STANDING JIB CRANES

51-15 Issued 10-1-85

**1-1/2
TON**

| Height Under Boom in ft. B | | SPAN in feet A | | | | | | | | | | | | |
|----------------------------|-----------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 8 | Prod. No. | 5130508 | 5130509 | 5130510 | 5130511 | 5130512 | 5130513 | 5130514 | 5130515 | 5130516 | 5130517 | 5130518 | 5130519 | 5130520 |
| | Mast, E | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1190 | 1205 | 1230 | 1505 | 1530 | 1650 | 1680 | 1900 | 2405 | 2450 | 2720 | 2770 | 2820 |
| 9 | Prod. No. | 5130521 | 5130522 | 5130523 | 5130524 | 5130525 | 5130526 | 5130527 | 5130528 | 5130529 | 5130530 | 5130531 | 5130532 | 5130533 |
| | Mast, E | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1215 | 1245 | 1265 | 1550 | 1580 | 1690 | 1720 | 1938 | 2465 | 2510 | 2780 | 2830 | 2885 |
| 10 | Prod. No. | 5130534 | 5130535 | 5130536 | 5130537 | 5130538 | 5130539 | 5130540 | 5130541 | 5130542 | 5130543 | 5130544 | 5130545 | 5130546 |
| | Mast, E | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1245 | 1270 | 1295 | 1600 | 1620 | 1735 | 1765 | 1980 | 2530 | 2565 | 2840 | 2895 | 2945 |
| 11 | Prod. No. | 5130547 | 5130548 | 5130549 | 5130550 | 5130551 | 5130552 | 5130553 | 5130554 | 5130555 | 5130556 | 5130557 | 5130558 | 5130559 |
| | Mast, E | 12 | 12 | 12 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1280 | 1300 | 1325 | 1640 | 1665 | 1785 | 2330 | 2545 | 2585 | 2630 | 2900 | 2950 | 3005 |
| 12 | Prod. No. | 5130560 | 5130561 | 5130562 | 5130563 | 5130564 | 5130565 | 5130566 | 5130567 | 5130568 | 5130569 | 5130570 | 5130571 | 5130572 |
| | Mast, E | 12 | 12 | 12 | 14 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1310 | 1335 | 1360 | 1680 | 2250 | 2365 | 2390 | 2605 | 2645 | 2685 | 2960 | 3015 | 3065 |
| 13 | Prod. No. | 5130573 | 5130574 | 5130575 | 5130576 | 5130577 | 5130578 | 5130579 | 5130580 | 5130581 | 5130582 | 5130583 | 5130584 | 5130585 |
| | Mast, E | 12 | 12 | 12 | 14 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1340 | 1365 | 1390 | 1725 | 2315 | 2430 | 2450 | 2665 | 2715 | 2745 | 3020 | 3070 | 3440 |
| 14 | Prod. No. | 5130586 | 5130587 | 5130588 | 5130589 | 5130590 | 5130591 | 5130592 | 5130593 | 5130594 | 5130595 | 5130596 | 5130597 | 5130598 |
| | Mast, E | 12 | 12 | 14 | 14 | 16 | 16 | 16 | 16 | 16 | 16 | 18 | 18 | 18 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1375 | 1400 | 1420 | 1770 | 2370 | 2485 | 2510 | 2725 | 2770 | 2810 | 3405 | 3455 | 3505 |
| 15 | Prod. No. | 5130599 | 5130600 | 5130601 | 5130602 | 5130603 | 5130604 | 5130605 | 5130606 | 5130607 | 5130608 | 5130609 | 5130610 | 5130611 |
| | Mast, E | 12 | 12 | 14 | 14 | 16 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 20 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1400 | 1425 | 1790 | 1815 | 2435 | 2546 | 2565 | 2785 | 2835 | 3210 | 3475 | 3525 | 4205 |
| 16 | Prod. No. | 5130612 | 5130613 | 5130614 | 5130615 | 5130616 | 5130617 | 5130618 | 5130619 | 5130620 | 5130621 | 5130622 | 5130623 | 5130624 |
| | Mast, E | 12 | 12 | 14 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 18 | 18 | 20 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 14 |
| | Weight | 1435 | 1460 | 1835 | 2455 | 2490 | 2610 | 2985 | 3195 | 3235 | 3275 | 3540 | 3590 | 4305 |
| 17 | Prod. No. | 5130625 | 5130626 | 5130627 | 5130628 | 5130629 | 5130630 | 5130631 | 5130632 | 5130633 | 5130634 | 5130635 | 5130636 | 5130637 |
| | Mast, E | 12 | 12 | 14 | 16 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 20 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1470 | 1495 | 1880 | 2520 | 2905 | 3020 | 3050 | 3260 | 3300 | 3345 | 3605 | 3680 | 4405 |
| 18 | Prod. No. | 5130638 | 5130639 | 5130640 | 5130641 | 5130642 | 5130643 | 5130644 | 5130645 | 5130646 | 5130647 | 5130648 | 5130649 | 5130650 |
| | Mast, E | 12 | 14 | 14 | 16 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 20 | 20 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1500 | 1895 | 1920 | 2575 | 2970 | 3090 | 3120 | 3330 | 3370 | 3410 | 3675 | 4445 | 4505 |
| 19 | Prod. No. | 5130651 | 5130652 | 5130653 | 5130654 | 5130655 | 5130656 | 5130657 | 5130658 | 5130659 | 5130660 | 5130661 | 5130662 | 5130663 |
| | Mast, E | 12 | 14 | 14 | 16 | 18 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 24 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1530 | 1940 | 1960 | 2640 | 3040 | 3155 | 3185 | 3400 | 4195 | 4235 | 4510 | 4545 | 5305 |
| 20 | Prod. No. | 5130664 | 5130665 | 5130666 | 5130667 | 5130668 | 5130669 | 5130670 | 5130671 | 5130672 | 5130673 | 5130674 | 5130675 | 5130676 |
| | Mast, E | 12 | 14 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 20 | 24 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1560 | 1980 | 2600 | 2700 | 3110 | 3220 | 3250 | 4255 | 4295 | 4335 | 4610 | 4645 | 5425 |

All dimensions shown in inches.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.

2 TON

SERIES 513 360° BASE MOUNTED FREE STANDING JIB CRANES

51-16

| Height Under Boom in ft. B | | SPAN in feet A | | | | | | | | | | | | |
|----------------------------|-----------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 8 | Prod. No. | 5130677 | 5130678 | 5130679 | 5130680 | 5130681 | 5130682 | 5130683 | 5130684 | 5130685 | 5130686 | 5130687 | 5130688 | 5130689 |
| | Mast, E | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 | 16 | 18 | 18 | 18 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1465 | 1490 | 1590 | 1620 | 2135 | 2330 | 2370 | 2415 | 2620 | 2715 | 3010 | 3050 | 3130 |
| 9 | Prod. No. | 5130690 | 5130691 | 5130692 | 5130693 | 5130694 | 5130695 | 5130696 | 5130697 | 5130698 | 5130699 | 5130700 | 5130701 | 5130702 |
| | Mast, E | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 | 16 | 18 | 18 | 18 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1510 | 1540 | 1635 | 1665 | 2195 | 2400 | 2425 | 2475 | 2715 | 2785 | 3080 | 3130 | 3185 |
| 10 | Prod. No. | 5130703 | 5130704 | 5130705 | 5130706 | 5130707 | 5130708 | 5130709 | 5130710 | 5130711 | 5130712 | 5130713 | 5130714 | 5130715 |
| | Mast, E | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 | 16 | 18 | 18 | 18 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1555 | 1580 | 1680 | 1710 | 2250 | 2455 | 2485 | 2530 | 2775 | 2845 | 3210 | 3270 | 3340 |
| 11 | Prod. No. | 5130716 | 5130717 | 5130718 | 5130719 | 5130720 | 5130721 | 5130722 | 5130723 | 5130724 | 5130725 | 5130726 | 5130727 | 5130728 |
| | Mast, E | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 | 16 | 18 | 18 | 18 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1600 | 1630 | 1725 | 1755 | 2315 | 2520 | 2550 | 2595 | 2840 | 2905 | 3285 | 3345 | 3410 |
| 12 | Prod. No. | 5130729 | 5130730 | 5130731 | 5130732 | 5130733 | 5130734 | 5130735 | 5130736 | 5130737 | 5130738 | 5130739 | 5130740 | 5130741 |
| | Mast, E | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 | 16 | 18 | 18 | 18 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1645 | 1675 | 1770 | 1800 | 2370 | 2580 | 2610 | 2660 | 2700 | 2970 | 3350 | 3410 | 3480 |
| 13 | Prod. No. | 5130742 | 5130743 | 5130744 | 5130745 | 5130746 | 5130747 | 5130748 | 5130749 | 5130750 | 5130751 | 5130752 | 5130753 | 5130754 |
| | Mast, E | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 | 16 | 18 | 18 | 18 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1690 | 1720 | 1815 | 1845 | 2435 | 2640 | 2680 | 2720 | 2960 | 3030 | 3420 | 3480 | 3545 |
| 14 | Prod. No. | 5130755 | 5130756 | 5130757 | 5130758 | 5130759 | 5130760 | 5130761 | 5130762 | 5130763 | 5130764 | 5130765 | 5130766 | 5130767 |
| | Mast, E | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 18 | 20 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1730 | 1760 | 1860 | 2470 | 2500 | 2700 | 2730 | 3130 | 3360 | 3440 | 3490 | 3545 | 4240 |
| 15 | Prod. No. | 5130768 | 5130769 | 5130770 | 5130771 | 5130772 | 5130773 | 5130774 | 5130775 | 5130776 | 5130777 | 5130778 | 5130779 | 5130780 |
| | Mast, E | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1775 | 1805 | 1900 | 2525 | 2555 | 2760 | 2790 | 3200 | 3430 | 3510 | 3555 | 4040 | 4110 |
| 16 | Prod. No. | 5130781 | 5130782 | 5130783 | 5130784 | 5130785 | 5130786 | 5130787 | 5130788 | 5130789 | 5130790 | 5130791 | 5130792 | 5130793 |
| | Mast, E | 14 | 14 | 14 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 18 | 20 | 24 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1825 | 1855 | 1950 | 2590 | 2620 | 2825 | 3215 | 3260 | 3600 | 3575 | 3625 | 4375 | 5050 |
| 17 | Prod. No. | 5130794 | 5130795 | 5130796 | 5130797 | 5130798 | 5130799 | 5130800 | 5130801 | 5130802 | 5130803 | 5130804 | 5130805 | 5130806 |
| | Mast, E | 14 | 14 | 14 | 16 | 18 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 24 |
| | Boom, W | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1870 | 1900 | 2000 | 2653 | 3055 | 3250 | 3290 | 3330 | 4310 | 4350 | 4410 | 4475 | 5170 |
| 18 | Prod. No. | 5130807 | 5130808 | 5130809 | 5130810 | 5130811 | 5130812 | 5130813 | 5130814 | 5130815 | 5130816 | 5130817 | 5130818 | 5130819 |
| | Mast, E | 14 | 14 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1910 | 1940 | 2675 | 2710 | 3125 | 3320 | 3360 | 3400 | 4415 | 4455 | 4510 | 5230 | 5300 |
| 19 | Prod. No. | 5130820 | 5130821 | 5130822 | 5130823 | 5130824 | 5130825 | 5130826 | 5130827 | 5130828 | 5130829 | 5130830 | 5130831 | 5130832 |
| | Mast, E | 14 | 14 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 24 | 24 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1955 | 1985 | 2735 | 2775 | 3190 | 3385 | 3425 | 4245 | 4515 | 4555 | 4705 | 5350 | 5420 |
| 20 | Prod. No. | 5130833 | 5130834 | 5130835 | 5130836 | 5130837 | 5130838 | 5130839 | 5130840 | 5130841 | 5130842 | 5130843 | 5130844 | 5130845 |
| | Mast, E | 14 | 14 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 24 | 24 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 2000 | 2030 | 2795 | 2835 | 3260 | 3455 | 3495 | 4345 | 4620 | 4655 | 4715 | 5470 | 5540 |

All dimension shown in inches.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



SERIES 513 360° BASE MOUNTED FREE STANDING JIB CRANES

51-17 Issued 10-1-85

**3
TON**

| Height Under Boom in ft. B | | SPAN in feet A | | | | | | | | | | | | |
|----------------------------|-----------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 8 | Prod. No. | 5130846 | 5130847 | 5130848 | 5130849 | 5130850 | 5130851 | 5130852 | 5130853 | 5130854 | 5130855 | 5130856 | 5130857 | 5130858 |
| | Mast, E | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 24 | 24 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 1970 | 2005 | 2150 | 2195 | 2565 | 2600 | 2840 | 3365 | 3410 | 3690 | 3735 | 4230 | 4630 |
| 9 | Prod. No. | 5130859 | 5130860 | 5130861 | 5130862 | 5130863 | 5130864 | 5130865 | 5130866 | 5130867 | 5130868 | 5130869 | 5130870 | 5130871 |
| | Mast, E | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 24 | 24 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 24 | 24 |
| | Weight | 2035 | 2060 | 2215 | 2255 | 2615 | 2650 | 2890 | 3420 | 3465 | 3735 | 3780 | 4300 | 4730 |
| 10 | Prod. No. | 5130872 | 5130873 | 5130874 | 5130875 | 5130876 | 5130877 | 5130878 | 5130879 | 5130880 | 5130881 | 5130882 | 5130883 | 5130884 |
| | Mast, E | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 24 | 24 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 2090 | 2120 | 2270 | 2320 | 2670 | 2710 | 3935 | 3460 | 3505 | 3720 | 3830 | 4370 | 4815 |
| 11 | Prod. No. | 5130885 | 5130886 | 5130887 | 5130888 | 5130889 | 5130890 | 5130891 | 5130892 | 5130893 | 5130894 | 5130895 | 5130896 | 5130897 |
| | Mast, E | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 24 | 24 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 2150 | 2180 | 2335 | 2380 | 2740 | 2780 | 3010 | 3560 | 3605 | 3875 | 3930 | 4490 | 4935 |
| 12 | Prod. No. | 5130898 | 5130899 | 5130900 | 5130901 | 5130902 | 5130903 | 5130904 | 5130905 | 5130906 | 5130907 | 5130908 | 5130909 | 5130910 |
| | Mast, E | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 24 | 24 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 2210 | 2240 | 2390 | 2440 | 2810 | 2845 | 3075 | 3660 | 3705 | 3970 | 4030 | 4610 | 5055 |
| 13 | Prod. No. | 5130911 | 5130912 | 5130913 | 5130914 | 5130915 | 5130916 | 5130917 | 5130918 | 5130919 | 5130920 | 5130921 | 5130922 | 5130923 |
| | Mast, E | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 24 | 24 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 2270 | 2300 | 2450 | 2500 | 2875 | 2910 | 3140 | 3760 | 3805 | 4075 | 4130 | 4730 | 5180 |
| 14 | Prod. No. | 5130924 | 5130925 | 5130926 | 5130927 | 5130928 | 5130929 | 5130930 | 5130931 | 5130932 | 5130933 | 5130934 | 5130935 | 5130936 |
| | Mast, E | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 24 | 24 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 2335 | 2360 | 2515 | 2560 | 2940 | 2980 | 3210 | 3860 | 3905 | 4170 | 4230 | 4850 | 5300 |
| 15 | Prod. No. | 5130937 | 5130938 | 5130939 | 5130940 | 5130941 | 5130942 | 5130943 | 5130944 | 5130945 | 5130946 | 5130947 | 5130948 | 5130949 |
| | Mast, E | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 24 | 24 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 2390 | 2420 | 2570 | 2620 | 3010 | 3045 | 3275 | 3955 | 4005 | 4270 | 4390 | 4970 | 5415 |
| 16 | Prod. No. | 5130950 | 5130951 | 5130952 | 5130953 | 5130954 | 5130955 | 5130956 | 5130957 | 5130958 | 5130959 | 5130960 | 5130961 | 5130962 |
| | Mast, E | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 2450 | 2480 | 2630 | 2670 | 3080 | 3115 | 3345 | 4055 | 4105 | 4370 | 5030 | 5090 | 5535 |
| 17 | Prod. No. | 5130963 | 5130964 | 5130965 | 5130966 | 5130967 | 5130968 | 5130969 | 5130970 | 5130971 | 5130972 | 5130973 | 5130974 | 5130975 |
| | Mast, E | 16 | 16 | 16 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 2515 | 2540 | 2695 | 3105 | 3145 | 3870 | 4100 | 4155 | 4830 | 5090 | 5155 | 5210 | 5660 |
| 18 | Prod. No. | 5130976 | 5130977 | 5130978 | 5130979 | 5130980 | 5130981 | 5130982 | 5130983 | 5130984 | 5130985 | 5130986 | 5130987 | 5130988 |
| | Mast, E | 16 | 16 | 16 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 2570 | 2600 | 2750 | 3175 | 3210 | 3975 | 4200 | 4260 | 4950 | 5205 | 5275 | 5330 | 5775 |
| 19 | Prod. No. | 5130989 | 5130990 | 5130991 | 5130992 | 5130993 | 5130994 | 5130995 | 5130996 | 5130997 | 5130998 | 5130999 | 5131000 | 5131001 |
| | Mast, E | 16 | 16 | 16 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 2630 | 2660 | 2815 | 3245 | 4035 | 4070 | 4300 | 5010 | 5070 | 5325 | 5410 | 5450 | 5895 |
| 20 | Prod. No. | 5131002 | 5131003 | 5131004 | 5131005 | 5131006 | 5131007 | 5131008 | 5131009 | 5131010 | 5131011 | 5131012 | 5131013 | 5131014 |
| | Mast, E | 16 | 16 | 16 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 2395 | 2720 | 2875 | 3310 | 4135 | 4170 | 4400 | 5130 | 5190 | 5445 | 5510 | 5570 | 6015 |

All dimension shown in inches.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.

**4
TON**
**SERIES 513 360° BASE MOUNTED
FREE STANDING JIB CRANES**

| Height Under Boom in ft. B | | SPAN in feet A | | | | | | | | | | | | |
|--|-----------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 8 | Prod. No. | 5131015 | 5131016 | 5131017 | 5131018 | 5131019 | 5131020 | 5131021 | 5131022 | 5131023 | 5131024 | 5131025 | 5131026 | 5131027 |
| | Mast, E | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 |
| 9 | Prod. No. | 5131028 | 5131029 | 5131030 | 5131031 | 5131032 | 5131033 | 5131034 | 5131035 | 5131036 | 5131037 | 5131038 | 5131039 | 5131040 |
| | Mast, E | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 |
| 10 | Prod. No. | 5131041 | 5131042 | 5131043 | 5131044 | 5131045 | 5131046 | 5131047 | 5131048 | 5131049 | 5131050 | 5131051 | 5131052 | 5131053 |
| | Mast, E | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 |
| 11 | Prod. No. | 5131054 | 5131055 | 5131056 | 5131057 | 5131058 | 5131059 | 5131060 | 5131061 | 5131062 | 5131063 | 5131064 | 5131065 | 5131066 |
| | Mast, E | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 |
| 12 | Prod. No. | 5131067 | 5131068 | 5131069 | 5131070 | 5131071 | 5131072 | 5131073 | 5131074 | 5131075 | 5131076 | 5131077 | 5131078 | 5131079 |
| | Mast, E | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 |
| 13 | Prod. No. | 5131080 | 5131081 | 5131082 | 5131083 | 5131084 | 5131085 | 5131086 | 5131087 | 5131088 | 5131089 | 5131090 | 5131091 | 5131092 |
| | Mast, E | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 |
| 14 | Prod. No. | 5131093 | 5131094 | 5131095 | 5131096 | 5131097 | 5131098 | 5131099 | 5131100 | 5131101 | 5131102 | 5131103 | 5131104 | 5131105 |
| | Mast, E | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 |
| 15 | Prod. No. | 5131106 | 5131107 | 5131108 | 5131109 | 5131110 | 5131111 | 5131112 | 5131113 | 5131114 | 5131115 | 5131116 | 5131117 | 5131118 |
| | Mast, E | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 |
| 16 | Prod. No. | 5131119 | 5131120 | 5131121 | 5131122 | 5131123 | 5131124 | 5131125 | 5131126 | 5131127 | 5131128 | 5131129 | 5131130 | 5131131 |
| | Mast, E | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 |
| 17 | Prod. No. | 5131132 | 5131133 | 5131134 | 5131135 | 5131136 | 5131137 | 5131138 | 5131139 | 5131140 | 5131141 | 5131142 | 5131143 | 5131144 |
| | Mast, E | 16 | 18 | 18 | 18 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 |
| 18 | Prod. No. | 5131145 | 5131146 | 5131147 | 5131148 | 5131149 | 5131150 | 5131151 | 5131152 | 5131153 | 5131154 | 5131155 | 5131156 | 5131157 |
| | Mast, E | 16 | 18 | 18 | 18 | 20 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 30 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 |
| 19 | Prod. No. | 5131158 | 5131159 | 5131160 | 5131161 | 5131162 | 5131163 | 5131164 | 5131165 | 5131166 | 5131167 | 5131168 | 5131169 | 5131170 |
| | Mast, E | 16 | 18 | 18 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 30 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 |
| 20 | Prod. No. | 5131171 | 5131172 | 5131173 | 5131174 | 5131175 | 5131176 | 5131177 | 5131178 | 5131179 | 5131180 | 5131181 | 5131182 | 5131183 |
| | Mast, E | 16 | 18 | 18 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 | 30 | 30 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 |

All dimensions shown in inches.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



SERIES 513 360° BASE MOUNTED FREE STANDING JIB CRANES

51-19 Issued 10-1-85

**5
TON**

| Height Under Boom in ft. B | | SPAN in feet A | | | | | | | | | | | | |
|----------------------------|-----------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 8 | Prod. No. | 5131184 | 5131185 | 5131186 | 5131187 | 5131188 | 5131189 | 5131190 | 5131191 | 5131192 | 5131193 | 5131194 | 5131195 | 5131196 |
| | Mast, E | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2430 | 2900 | 3055 | 3140 | 3635 | 3840 | 3895 | 3990 | 4300 | 5785 | 6365 | 6470 | 6565 |
| 9 | Prod. No. | 5131197 | 5131198 | 5131199 | 5131200 | 5131201 | 5131202 | 5131203 | 5131204 | 5131205 | 5131206 | 5131207 | 5131208 | 5131209 |
| | Mast, E | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2470 | 2970 | 3150 | 3205 | 3715 | 3925 | 3980 | 4075 | 4430 | 5860 | 6440 | 6845 | 6650 |
| 10 | Prod. No. | 5131210 | 5131211 | 5131212 | 5131213 | 5131214 | 5131215 | 5131216 | 5131217 | 5131218 | 5131219 | 5131220 | 5131221 | 5131222 |
| | Mast, E | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2510 | 3010 | 3195 | 3250 | 3780 | 4000 | 4055 | 4150 | 4475 | 5950 | 6515 | 6620 | 6720 |
| 11 | Prod. No. | 5131223 | 5131224 | 5131225 | 5131226 | 5131227 | 5131228 | 5131229 | 5131230 | 5131231 | 5131232 | 5131233 | 5131234 | 5131235 |
| | Mast, E | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2575 | 3110 | 3290 | 3350 | 3900 | 4120 | 4175 | 4270 | 4595 | 6100 | 6670 | 6775 | 6875 |
| 12 | Prod. No. | 5131236 | 5131237 | 5131238 | 5131239 | 5131240 | 5131241 | 5131242 | 5131243 | 5131244 | 5131245 | 5131246 | 5131247 | 5131248 |
| | Mast, E | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2640 | 3210 | 3390 | 3450 | 4020 | 4240 | 4295 | 4390 | 4715 | 6250 | 6820 | 6920 | 7020 |
| 13 | Prod. No. | 5131249 | 5131250 | 5131251 | 5131252 | 5131253 | 5131254 | 5131255 | 5131256 | 5131257 | 5131258 | 5131259 | 5131260 | 5131261 |
| | Mast, E | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2715 | 3310 | 3490 | 3550 | 4145 | 4360 | 4420 | 4515 | 4835 | 6405 | 6975 | 7080 | 7180 |
| 14 | Prod. No. | 5131262 | 5131263 | 5131264 | 5131265 | 5131266 | 5131267 | 5131268 | 5131269 | 5131270 | 5131271 | 5131272 | 5131273 | 5131274 |
| | Mast, E | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2780 | 3410 | 3590 | 3650 | 4260 | 4480 | 4535 | 4630 | 4955 | 6555 | 7125 | 7230 | 7330 |
| 15 | Prod. No. | 5131275 | 5131276 | 5131277 | 5131278 | 5131279 | 5131280 | 5131281 | 5131282 | 5131283 | 5131284 | 5131285 | 5131286 | 5131287 |
| | Mast, E | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2845 | 3510 | 3690 | 3750 | 4380 | 4600 | 4655 | 4750 | 5075 | 6710 | 7280 | 7380 | 7480 |
| 16 | Prod. No. | 5131288 | 5131289 | 5131290 | 5131291 | 5131292 | 5131293 | 5131294 | 5131295 | 5131296 | 5131297 | 5131298 | 5131299 | 5131300 |
| | Mast, E | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2910 | 3610 | 3790 | 3855 | 4500 | 4715 | 4775 | 4870 | 5190 | 6860 | 7430 | 7535 | 7635 |
| 17 | Prod. No. | 5131301 | 5131302 | 5131303 | 5131304 | 5131305 | 5131306 | 5131307 | 5131308 | 5131309 | 5131310 | 5131311 | 5131312 | 5131313 |
| | Mast, E | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2980 | 3710 | 3890 | 3955 | 4620 | 4835 | 4895 | 4990 | 5310 | 7010 | 7580 | 7685 | 7785 |
| 18 | Prod. No. | 5131314 | 5131315 | 5131316 | 5131317 | 5131318 | 5131319 | 5131320 | 5131321 | 5131322 | 5131323 | 5131324 | 5131325 | 5131326 |
| | Mast, E | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 3045 | 3810 | 3990 | 4060 | 4740 | 4960 | 5015 | 5110 | 5435 | 7165 | 7735 | 7890 | 7940 |
| 19 | Prod. No. | 5131327 | 5131328 | 5131329 | 5131330 | 5131331 | 5131332 | 5131333 | 5131334 | 5131335 | 5131336 | 5131337 | 5131338 | 5131339 |
| | Mast, E | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 3115 | 3910 | 4090 | 4160 | 4860 | 5080 | 5135 | 5230 | 5555 | 7315 | 7885 | 7990 | 8090 |
| 20 | Prod. No. | 5131340 | 5131341 | 5131342 | 5131343 | 5131344 | 5131345 | 5131346 | 5131347 | 5131348 | 5131349 | 5131350 | 5131351 | 5131352 |
| | Mast, E | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 3185 | 4010 | 4190 | 4260 | 4980 | 5200 | 5255 | 5350 | 5670 | 7470 | 8040 | 8140 | 8240 |

All dimension shown in inches.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.

**1/4 to 5
TONS**

**SERIES 513 360° BASE MOUNTED
FREE STANDING JIB CRANES**

51-20

STANDARD EQUIPMENT SPECIFICATIONS

DESIGN FACTORS: Standard capacity ratings shall represent the net rated load at the hook of any type of hoist with the same load rating installed on the jib crane having a hoist trolley weight within the established limits. The jib crane shall be so designed in the load-carrying parts that the calculated static stress in the material based on the rated load, shall not exceed 20% of the published average ultimate strength of the material. This limitation of stress provides a margin to allow for variations in the properties of materials, manufacturing and operation conditions, and design assumptions. Design load for stress calculations shall be based upon the capacity plus 15% for the weight of the hoist and trolley and an additional 25% for impact (capacity X 1.4). However, under no condition shall the crane be loaded beyond its rated capacity.

BOOM: Boom beam shall be constructed in accord with AISC specifications. Under full load the beam deflection shall not exceed 1/150 of the span. Design load for deflection calculation shall be based upon the capacity plus 15% for the weight of the hoist and trolley (capacity X 1.15). Boom beam shall be selected structural steel member and shall provide level and straight tread surfaces for the hoist trolleys. The beam shall have adequate lateral stiffness with minimum lateral moment of inertia of 1/20 that of the vertical moment of inertia. Boom shall be reinforced, when required, with channel capping for added strength and lateral stability.

MAST: The jib crane masts shall be constructed from structural pipe of proper diameter to give a minimum of deflection and sufficient wall strength to resist crushing and wear at the lower roller assembly.

HEAD ASSEMBLY: The head assembly shall be constructed of standard steel plate and designed to limit deflection and provide resistance to dislodgement in both outward and upward directions. The boom shall be attached to the jib head front and back through large, heavy duty plates and channels which will distribute boom loading forces through reinforcing channels to the lower roller assembly of the head, and through the bearing to the pivot pin on top of the jib mast. Jib heads made from plate only, without reinforcing channels, are not acceptable.

The head assembly shall allow for an enclosed bottom entrance collector assembly to be installed inside the head, and be able to be installed independently of the boom.

BEARINGS: The boom support top bearing shall be heavy-duty tapered roller bearing with a minimum average life of 10,000 hours. The bearing assembly shall have provision for a retaining pin in double shear above the top pivot bearing. The lower roller assembly bearing shall be adjustable and have two (2) large diameter rollers with each roller having a minimum of two (2) heavy-duty roller bearings operating on hardened bolts with provisions for pressure grease lubrication.

BASE PLATE: The jib crane base plates are to be constructed from solid base plate with full web reinforcing gussets supporting the entire base plate and tying same into the jib masts. The base plate is to have a minimum of six (6) gussets and either six (6) or twelve (12) bolts properly spaced to furnish a minimum of forces being exerted on the concrete support foundation. Base plates made from rings or bar type gussets supporting only the outside of the base plate are not acceptable.

PAINTING: The jib crane before shipment shall be painted with a prime and finish coat of a lead-free alkyd air-dry enamel. The prime coat is a buff color with a semi-gloss finish. The finish coat is a yellow oxide with a full gloss finish.

OPERATING AND MAINTENANCE: Proper erection instructions, parts list and maintenance instructions will be furnished with the crane.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



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Acco Products Division

A division of Babcock Industries Inc.

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51-21

SERIES 514

360° INSERT MOUNTED FREE STANDING JIB CRANE

CAPACITIES ½ TO 5 TONS
SPANS 8 TO 20 FEET



The Acco Series 514 Insert Mounted Jib Crane is designed for use with hoists in applications where defined area coverage is required or as a supplement to overhead traveling cranes. The free standing models offer up to 360° continuous rotation without being attached to the building structure. The Insert mounted jib crane is best suited for installations where floor space immediately around the pillar is limited. The insert mounted jib crane requires suitable reinforced concrete foundation, and is mounted directly into the floor.

The head assembly has a retaining pin above the bearing assembly to protect against incidental dislodgement of the head from the mast. The assembly can be installed independently of the boom. This minimizes the necessary overhead room required for installation.

The jib crane, when combined with an electric hoist, can be electrified by means of a commutator enclosed in the hood and festoon electrification arrangement suitable for NEMA 1 indoor service or NEMA 3R outdoor service.

CONSTRUCTION FEATURES

HEAD ASSEMBLY: The design of the Acco head assembly as an independent assembly which rotates about the pin in the top of the mast pipe, allows installation of the head separate from the boom, thus decreasing required overhead clearance during installation. A structural channel joins the two sides of the head assembly in the rear of the head and resists dislodgement of the head in the event the boom is lifted.

TOP PIVOT BEARING: Connection of the head assembly to the mast pipe is made via the top pivot assembly. The top pivot assembly incorporates a bearing plate connecting the two sides of the head assembly approximately 8 inches below the top of the head. The plate supports a Timken tapered roller bearing to provide the greatest ease of rotation. A retaining pin is provided through the pivot pin above the bearing plate to resist dislodgement of the head.

Recessing the pivot assembly within the head assembly reduces the clearance required for installation and allows the addition of a bottom entry collector assembly for electrification from 360° rotation either initially or as a simple field modification. The collector assembly is thus completely enclosed within the head assembly.

TRUNNION ROLLER ASSEMBLY: This assembly provides a second bearing point within the head assembly which transmits the moment exerted on the boom to the mast pipe, while providing for ease of rotation. Two capacities of trunnion roller assemblies are utilized in Free-Standing Jib Cranes. Type 1 consists of a single formed channel and two rollers and is used on all cranes up to and including 2 tons of capacity. Type 2 utilizes two sets of articulated rollers mounted to the formed channel. The mounting bracket assembly is connected to the head via threaded rod for easy level adjustment of the boom during installation. Grease fittings on the bearings allow for simple field lubrication.

MAST: Series 514 Jib Crane mast is constructed from structural pipe.

BOOM: Boom constructed from standard S-Beams, reinforced where necessary with channel capping for added strength and lateral stability. A back plate welded to the boom, and an angle welded to the front of the head assembly serve as connecting points for the bolted connection of the boom and head assembly. This allows boom and head assembly to be shipped and installed separately.

BASE PLATE: A simple, rectangular plate is welded to the base of the mast pipe and secured via anchor bolts to the first pour of the foundation.

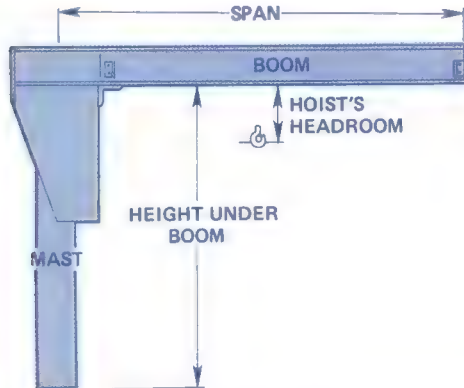
1/4 to 5 TONS

SERIES 514 360° INSERT MOUNTED FREE STANDING JIB CRANE

51-22

HOW TO SPECIFY ACCO SERIES 514 BASE MOUNTED FREE STANDING JIB CRANE .

1. Determine the capacity, span of boom and height under boom required.



2. Specify proper product number in regards to jib crane capacity, span, and under boom height found in following pages.
3. Specify the style of insert. Two styles of insert mounted free standing jib cranes are available. The standard insert has small bottom base plate welded to base of the mast pipe and secured via anchor bolts to the first pour of the foundation. The optional version has insert sleeve to position and hold the base of mast pipe. This offers portability and alignment ease.
4. Specify diameter of the mast. Series 514 jib cranes are designed with a standard range of mast diameters. The first number under product number designates mast's diameter (dimension E). By using this number, the bolt circle diameter, bolt pattern, the number and size of bolts, and the size and shape of the base plate used for each particular size mast may be found in the following chart.

| Diameter of Mast E in. | MAST DATA Dimensions | | | | Std. Insert Anchor Bolt Pattern | | Optional Sleeve R in. |
|---------------------------------|-------------------------|----------|-----------|-----------|---------------------------------------|----------|--------------------------------|
| | J in. | K in. | H1 in. | H2 in. | P in. | Q in. | |
| 8 | 10 3/8 | 10 | 46 3/4 | 4 | 11 | 8 | 11 3/4 |
| 12 | 12 7/8 | 12 1/2 | 71 3/4 | 6 | 15 | 12 | 15 |
| 14 | 15 3/8 | 15 | 72 | 8 | 17 | 14 | 17 |
| 16 | 17 3/8 | 17 | 72 | 8 | 19 | 16 | 19 |
| 18 | 17 3/8 | 17 | 72 | 9 | 21 | 18 | 21 |
| 20 | 17 7/8 | 17 1/2 | 72 | 10 | 23 | 20 | 23 |
| 24 | 22 7/8 | 22 1/2 | 72 | 12 | 27 | 24 | 27 |
| 30 | 25 3/8 | 25 | 84 | 12 | 33 | 30 | 33 |

5. Specify height of the boom. The second number under the product number designates depth of the boom, W. By using this number the size and flange width may be found in following chart.

| STANDARD BOOM DATA | | |
|---------------------|-----------|------------------------|
| Boom Height W | Beam Size | Flange Width in. |
| 6 | 6S12.5 # | 3 3/8 |
| 7 | 7S15.3 # | 3 5/8 |
| 8 | 8S18.4 # | 4 |
| 10 | 10S25.4 # | 4 5/8 |
| 12 | 12S31.8 # | 5 |
| 15 | 15S42.9 # | 5 1/2 |
| 18 | 18S54.7 # | 6 |
| 20 | 20S66 # | 6 1/4 |
| 24 | 24S80 # | 7 |

6. Specify foundation requirements. A structurally reinforced foundation is required to support the mounting of the free standing jib crane. When the load is applied to the jib crane, this puts a moment on the foundation which must be of sufficient size to resist the compression and tension forces. See the following chart for size and location requirement for proper installation.

| STANDARD FOOTING REQUIREMENTS | | | |
|-------------------------------|-------------|----------------|----------------|
| Capacity Tons | Span Ft. | Footing Size | |
| | | Width ft. M | Depth ft. L |
| 1/4 | 8-13 | 4 | 3 |
| | 14-20 | 4 | 4 |
| 1/2 | 8-12 | 4 | 4 |
| | 13-20 | 5 | 4 |
| 1 | 8-10 | 5 | 4 |
| | 11-15 | 6 | 4 |
| | 16-20 | 7 | 4 |
| 1 1/2 | 8-12 | 6 | 4 |
| | 13-15 | 7 | 4 |
| | 16-20 | 8 | 4 |
| 2 | 8-11 | 6 | 4 |
| | 12-15 | 7 | 4 |
| | 16-20 | 8 | 4 |
| 3 | 8-16 | 8 | 4 |
| | 17-20 | 9 | 4 |
| 4 | 8-13 | 8 | 4 |
| | 14-20 | 10 | 4 |
| 5 | 8-14 | 9 | 4 |
| | 15-18 | 10 | 4 |
| | 19-20 | 10 | 5 |

Jib crane foundation requirements are based on a soil pressure of 2500# per square foot.

Concrete recommended for jib crane foundation is 3000# per square inch of compressive concrete.

7. Select desired Acco hoist.

Section 10 for Hand Operated Hoist, 1/2 to 5 tons

Section 20 for **WRIGHT-WAY**® Electric Hoist,

1/4 to 2 tons

Section 21 for **WRIGHT-WAY** Air Operated Hoist,

1/4 to 2 tons

Section 30 for **WORK-RATED**® Electric Hoist,

1 to 5 tons

8. Specify other modifications and accessories. See page 51-41 for further specifications.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

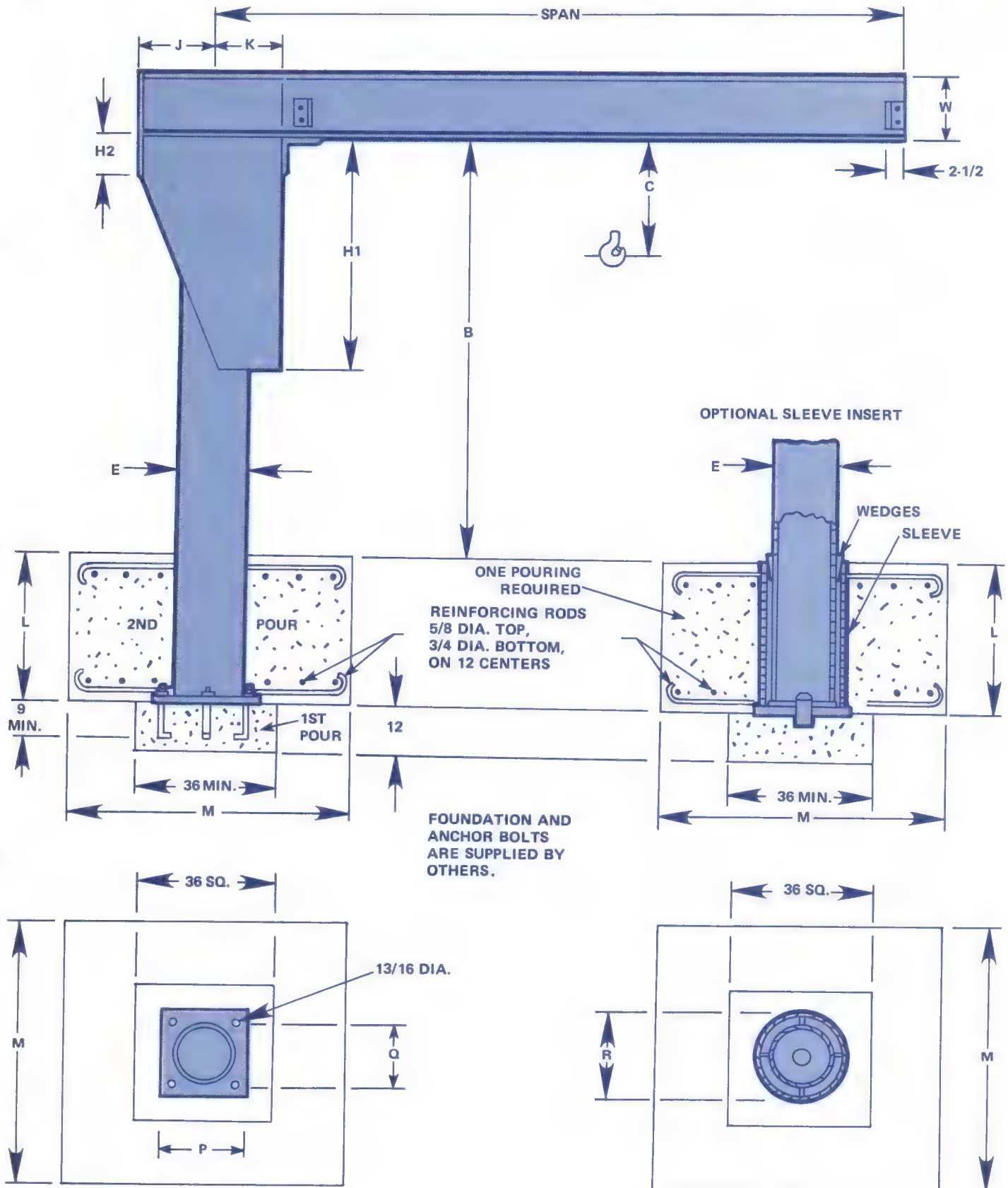
WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



**SERIES 514 360° INSERT MOUNTED
FREE STANDING JIB CRANE**

51-23 Issued 10-1-85

**1/4 to 5
TONS**



All dimensions shown in inches.

1/4 TON

SERIES 514 360° INSERT MOUNTED FREE STANDING JIB CRANE

51-24

| Height Under Boom in ft. B | | SPAN in feet A | | | | | | | | | | | | |
|--|-----------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 8 | Prod. No. | 5140001 | 5140002 | 5140003 | 5140004 | 5140005 | 5140006 | 5140007 | 5140008 | 5140009 | 5140010 | 5140011 | 5140012 | 5140013 |
| | Mast, E | 8 | 8 | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 640 | 650 | 660 | 680 | 690 | 1020 | 1040 | 1060 | 1080 | 1100 | 1240 | 1270 | 1300 |
| 9 | Prod. No. | 5140014 | 5140015 | 5140016 | 5140017 | 5140018 | 5140019 | 5140020 | 5140021 | 5140022 | 5140023 | 5140024 | 5140025 | 5140026 |
| | Mast, E | 8 | 8 | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 665 | 675 | 685 | 705 | 715 | 1050 | 1070 | 1090 | 1110 | 1125 | 1270 | 1300 | 1325 |
| 10 | Prod. No. | 5140027 | 5140028 | 5140029 | 5140030 | 5140031 | 5140032 | 5140033 | 5140034 | 5140035 | 5140036 | 5140037 | 5140038 | 5140039 |
| | Mast, E | 8 | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 690 | 700 | 710 | 725 | 1000 | 1085 | 1105 | 1120 | 1140 | 1160 | 1200 | 1330 | 1360 |
| 11 | Prod. No. | 5140040 | 5140041 | 5140042 | 5140043 | 5140044 | 5140045 | 5140046 | 5140047 | 5140048 | 5140049 | 5140050 | 5140051 | 5140052 |
| | Mast, E | 8 | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 715 | 725 | 730 | 750 | 1030 | 1120 | 1135 | 1155 | 1175 | 1195 | 1335 | 1365 | 1630 |
| 12 | Prod. No. | 5140053 | 5140054 | 5140055 | 5140056 | 5140057 | 5140058 | 5140059 | 5140060 | 5140061 | 5140062 | 5140063 | 5140064 | 5140065 |
| | Mast, E | 8 | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 740 | 745 | 755 | 775 | 1060 | 1145 | 1165 | 1185 | 1200 | 1220 | 1365 | 1390 | 1675 |
| 13 | Prod. No. | 5140066 | 5140067 | 5140068 | 5140069 | 5140070 | 5140071 | 5140072 | 5140073 | 5140074 | 5140075 | 5140076 | 5140077 | 5140078 |
| | Mast, E | 8 | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 760 | 770 | 780 | 800 | 1095 | 1180 | 1200 | 1215 | 1235 | 1255 | 1400 | 1690 | 1715 |
| 14 | Prod. No. | 5140079 | 5140080 | 5140081 | 5140082 | 5140083 | 5140084 | 5140085 | 5140086 | 5140087 | 5140088 | 5140089 | 5140090 | 5140091 |
| | Mast, E | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 785 | 795 | 805 | 1095 | 1120 | 1205 | 1225 | 1245 | 1265 | 1285 | 1425 | 1730 | 1760 |
| 15 | Prod. No. | 5140092 | 5140093 | 5140094 | 5140095 | 5140096 | 5140097 | 5140098 | 5140099 | 5140100 | 5140101 | 5140102 | 5140103 | 5140104 |
| | Mast, E | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 810 | 820 | 825 | 1125 | 1155 | 1240 | 1260 | 1280 | 1300 | 1605 | 1760 | 1775 | 1805 |
| 16 | Prod. No. | 5140105 | 5140106 | 5140107 | 5140108 | 5140109 | 5140110 | 5140111 | 5140112 | 5140113 | 5140114 | 5140115 | 5140116 | 5140117 |
| | Mast, E | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 830 | 840 | 850 | 1155 | 1185 | 1270 | 1290 | 1305 | 1630 | 1650 | 1800 | 1820 | 1850 |
| 17 | Prod. No. | 5140118 | 5140119 | 5140120 | 5140121 | 5140122 | 5140123 | 5140124 | 5140125 | 5140126 | 5140127 | 5140128 | 5140129 | 5140130 |
| | Mast, E | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 16 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 855 | 865 | 875 | 1190 | 1215 | 1300 | 1320 | 1655 | 1675 | 1690 | 1845 | 1865 | 2425 |
| 18 | Prod. No. | 5140131 | 5140132 | 5140133 | 5140134 | 5140135 | 5140136 | 5140137 | 5140138 | 5140139 | 5140140 | 5140141 | 5140142 | 5140143 |
| | Mast, E | 8 | 8 | 8 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 14 | 16 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 880 | 890 | 900 | 1220 | 1250 | 1335 | 1680 | 1695 | 1715 | 1735 | 1885 | 1905 | 2485 |
| 19 | Prod. No. | 5140144 | 5140145 | 5140146 | 5140147 | 5140148 | 5140149 | 5140150 | 5140151 | 5140152 | 5140153 | 5140154 | 5140155 | 5140156 |
| | Mast, E | 8 | 8 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 14 | 16 |
| | Boom, W | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 905 | 915 | 1240 | 1250 | 1280 | 1365 | 1720 | 1740 | 1760 | 1780 | 1930 | 1950 | 2545 |
| 20 | Prod. No. | 5140157 | 5140158 | 5140159 | 5140160 | 5140161 | 5140162 | 5140163 | 5140164 | 5140165 | 5140166 | 5140167 | 5140168 | 5140169 |
| | Mast, E | 8 | 8 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 16 | 16 |
| | Boom, W | 5 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | Weight | 925 | 935 | 1275 | 1285 | 1310 | 1395 | 1765 | 1780 | 1800 | 1820 | 1970 | 2585 | 2605 |

All dimensions shown in inches.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



SERIES 514 360° INSERT MOUNTED FREE STANDING JIB CRANE

51-25 Issued 10-1-85

**1/2
TON**

| Height Under Boom in ft. B | | SPAN in feet A | | | | | | | | | | | | |
|--|-----------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 8 | Prod. No. | 5140170 | 5140171 | 5140172 | 5140173 | 5140174 | 5140175 | 5140176 | 5140177 | 5140178 | 5140179 | 5140180 | 5140181 | 5140182 |
| | Mast, E | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| | Boom, W | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 670 | 680 | 770 | 1010 | 1115 | 1145 | 1265 | 1300 | 1325 | 1360 | 1775 | 1810 | 1850 |
| 9 | Prod. No. | 5140183 | 5140184 | 5140185 | 5140186 | 5140187 | 5140188 | 5140189 | 5140190 | 5140191 | 5140192 | 5140193 | 5140194 | 5140195 |
| | Mast, E | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| | Boom, W | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 695 | 705 | 795 | 1040 | 1150 | 1180 | 1300 | 1325 | 1360 | 1390 | 1815 | 1855 | 1890 |
| 10 | Prod. No. | 5140196 | 5140197 | 5140198 | 5140199 | 5140200 | 5140201 | 5140202 | 5140203 | 5140204 | 5140205 | 5140206 | 5140207 | 5140208 |
| | Mast, E | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| | Boom, W | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 730 | 740 | 820 | 1045 | 1155 | 1200 | 1300 | 1330 | 1365 | 1420 | 1865 | 1905 | 1945 |
| 11 | Prod. No. | 5140209 | 5140210 | 5140211 | 5140212 | 5140213 | 5140214 | 5140215 | 5140216 | 5140217 | 5140218 | 5140219 | 5140220 | 5140221 |
| | Mast, E | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 |
| | Boom, W | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 755 | 765 | 1060 | 1080 | 1170 | 1215 | 1335 | 1365 | 1400 | 1670 | 1905 | 1950 | 1985 |
| 12 | Prod. No. | 5140222 | 5140223 | 5140224 | 5140225 | 5140226 | 5140227 | 5140228 | 5140229 | 5140230 | 5140231 | 5140232 | 5140233 | 5140234 |
| | Mast, E | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 |
| | Boom, W | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 780 | 795 | 1095 | 1110 | 1200 | 1245 | 1365 | 1390 | 1455 | 1710 | 1950 | 1990 | 2030 |
| 13 | Prod. No. | 5140235 | 5140236 | 5140237 | 5140238 | 5140239 | 5140240 | 5140241 | 5140242 | 5140243 | 5140244 | 5140245 | 5140246 | 5140247 |
| | Mast, E | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 |
| | Boom, W | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 810 | 1050 | 1125 | 1140 | 1230 | 1280 | 1400 | 1425 | 1725 | 1760 | 1990 | 2035 | 2070 |
| 14 | Prod. No. | 5140248 | 5140249 | 5140250 | 5140251 | 5140252 | 5140253 | 5140254 | 5140255 | 5140256 | 5140257 | 5140258 | 5140259 | 5140260 |
| | Mast, E | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 |
| | Boom, W | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 1065 | 1080 | 1160 | 1175 | 1260 | 1310 | 1430 | 1460 | 1770 | 1800 | 2035 | 2075 | 2555 |
| 15 | Prod. No. | 5140261 | 5140262 | 5140263 | 5140264 | 5140265 | 5140266 | 5140267 | 5140268 | 5140269 | 5140270 | 5140271 | 5140272 | 5140273 |
| | Mast, E | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 |
| | Boom, W | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 1095 | 1110 | 1195 | 1205 | 1290 | 1345 | 1465 | 1785 | 1810 | 1845 | 2075 | 2575 | 2620 |
| 16 | Prod. No. | 5140274 | 5140275 | 5140276 | 5140277 | 5140278 | 5140279 | 5140280 | 5140281 | 5140282 | 5140283 | 5140284 | 5140285 | 5140286 |
| | Mast, E | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| | Boom, W | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 1130 | 1145 | 1225 | 1240 | 1320 | 1380 | 1795 | 1825 | 1855 | 2360 | 2595 | 2640 | 2680 |
| 17 | Prod. No. | 5140287 | 5140288 | 5140289 | 5140290 | 5140291 | 5140292 | 5140293 | 5140294 | 5140295 | 5140296 | 5140297 | 5140298 | 5140299 |
| | Mast, E | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| | Boom, W | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 1165 | 1180 | 1260 | 1275 | 1355 | 1720 | 1840 | 1870 | 1895 | 2420 | 2650 | 2700 | 2740 |
| 18 | Prod. No. | 5140300 | 5140301 | 5140302 | 5140303 | 5140304 | 5140305 | 5140306 | 5140307 | 5140308 | 5140309 | 5140310 | 5140311 | 5140312 |
| | Mast, E | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| | Boom, W | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 1195 | 1210 | 1295 | 1630 | 1740 | 1765 | 1880 | 1910 | 1940 | 2480 | 2715 | 2760 | 2895 |
| 19 | Prod. No. | 5140313 | 5140314 | 5140315 | 5140316 | 5140317 | 5140318 | 5140319 | 5140320 | 5140321 | 5140322 | 5140323 | 5140324 | 5140325 |
| | Mast, E | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 |
| | Boom, W | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 1225 | 1245 | 1325 | 1675 | 1780 | 1805 | 1925 | 1955 | 2510 | 2540 | 2775 | 2820 | 2865 |
| 20 | Prod. No. | 5140326 | 5140327 | 5140328 | 5140329 | 5140330 | 5140331 | 5140332 | 5140333 | 5140334 | 5140335 | 5140336 | 5140337 | 5140338 |
| | Mast, E | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 |
| | Boom, W | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 |
| | Weight | 1260 | 1280 | 1360 | 1715 | 1825 | 1850 | 1970 | 1995 | 2570 | 2605 | 2835 | 2885 | 2925 |

All dimensions shown in inches.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.

1 TON

SERIES 514 360° INSERT MOUNTED FREE STANDING JIB CRANE

51-26

| Height Under Boom in ft. B | | SPAN in feet A | | | | | | | | | | | | |
|----------------------------|-----------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 8 | Prod. No. | 5140339 | 5140340 | 5140341 | 5140342 | 5140343 | 5140344 | 5140345 | 5140346 | 5140347 | 5140348 | 5140349 | 5140350 | 5140351 |
| | Mast, E | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 14 |
| | Boom, W | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1030 | 1055 | 1160 | 1195 | 1300 | 1410 | 1435 | 1695 | 1950 | 2000 | 2052 | 2105 | 2155 |
| 9 | Prod. No. | 5140352 | 5140353 | 5140354 | 5140355 | 5140356 | 5140357 | 5140358 | 5140359 | 5140360 | 5140361 | 5140362 | 5140363 | 5140364 |
| | Mast, E | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 16 |
| | Boom, W | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1065 | 1090 | 1195 | 1225 | 1400 | 1445 | 1485 | 1740 | 1990 | 2045 | 2095 | 2105 | 2620 |
| 10 | Prod. No. | 5140365 | 5140366 | 5140367 | 5140368 | 5140369 | 5140370 | 5140371 | 5140372 | 5140373 | 5140374 | 5140375 | 5140376 | 5140377 |
| | Mast, E | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 16 | 16 |
| | Boom, W | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1100 | 1120 | 1225 | 1260 | 1435 | 1480 | 1745 | 1780 | 2035 | 2085 | 2140 | 2630 | 2675 |
| 11 | Prod. No. | 5140378 | 5140379 | 5130380 | 5140381 | 5140382 | 5140383 | 5140384 | 5140385 | 5140386 | 5140387 | 5140388 | 5140389 | 5140390 |
| | Mast, E | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 16 | 16 | 16 |
| | Boom, W | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1130 | 1155 | 1260 | 1295 | 1470 | 1750 | 1785 | 1825 | 2075 | 2130 | 2630 | 2690 | 2730 |
| 12 | Prod. No. | 5140391 | 5140392 | 5140393 | 5140394 | 5140395 | 5140396 | 5140397 | 5140398 | 5140399 | 5140400 | 5140401 | 5140402 | 5140403 |
| | Mast, E | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| | Boom, W | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1165 | 1195 | 1290 | 1325 | 1750 | 1790 | 1830 | 1865 | 2120 | 2640 | 2695 | 2750 | 2790 |
| 13 | Prod. No. | 5140404 | 5140405 | 5140406 | 5140407 | 5140408 | 5140409 | 5140410 | 5140411 | 5140412 | 5140413 | 5140414 | 5140415 | 5140416 |
| | Mast, E | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 | 16 |
| | Boom, W | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1200 | 1215 | 1325 | 1360 | 1790 | 1835 | 1870 | 2415 | 2645 | 2705 | 2755 | 2815 | 2845 |
| 14 | Prod. No. | 5140417 | 5140418 | 5140419 | 5140420 | 5140421 | 5140422 | 5140423 | 5140424 | 5140425 | 5140426 | 5140427 | 5140428 | 5140429 |
| | Mast, E | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 | 16 |
| | Boom, W | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1230 | 1245 | 1365 | 1660 | 1835 | 1875 | 1915 | 2474 | 2710 | 2760 | 2815 | 2875 | 2910 |
| 15 | Prod. No. | 5140430 | 5140431 | 5140432 | 5140433 | 5140434 | 5140435 | 5140436 | 5140437 | 5140438 | 5140439 | 5140440 | 5140441 | 5140442 |
| | Mast, E | 12 | 12 | 12 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 | 16 | 18 |
| | Boom, W | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1265 | 1280 | 1400 | 1700 | 1875 | 1920 | 2475 | 2535 | 2770 | 2820 | 2875 | 2935 | 3245 |
| 16 | Prod. No. | 5140443 | 5140444 | 5140445 | 5140446 | 5140447 | 5140448 | 5140449 | 5140450 | 5140451 | 5140452 | 5140453 | 5140454 | 5140455 |
| | Mast, E | 12 | 12 | 12 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 | 18 | 18 |
| | Boom, W | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1300 | 1310 | 1430 | 1745 | 1920 | 1960 | 2535 | 2600 | 2830 | 2885 | 2935 | 3235 | 3310 |
| 17 | Prod. No. | 5140456 | 5140457 | 5140458 | 5140459 | 5140460 | 5140461 | 5140462 | 5140463 | 5140464 | 5140465 | 5140466 | 5140467 | 5140468 |
| | Mast, E | 12 | 12 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 | 18 | 18 | 18 |
| | Boom, W | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1330 | 1345 | 1760 | 1785 | 1960 | 2555 | 2600 | 2660 | 2895 | 2945 | 3275 | 3300 | 3380 |
| 18 | Prod. No. | 5140469 | 5140470 | 5140471 | 5140472 | 5140473 | 5140474 | 5140475 | 5140476 | 5140477 | 5140478 | 5140479 | 5140480 | 5140481 |
| | Mast, E | 12 | 12 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 |
| | Boom, W | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1365 | 1390 | 1800 | 1830 | 2005 | 2620 | 2660 | 2720 | 2955 | 3290 | 3340 | 3370 | 3445 |
| 19 | Prod. No. | 5140482 | 5140483 | 5140484 | 5140485 | 5140486 | 5140487 | 5140488 | 5140489 | 5140490 | 5140491 | 5140492 | 5140493 | 5140494 |
| | Mast, E | 12 | 12 | 14 | 14 | 16 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 |
| | Boom, W | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1400 | 1410 | 1845 | 1890 | 2640 | 2680 | 2720 | 2785 | 3015 | 3360 | 3405 | 3440 | 3510 |
| 20 | Prod. No. | 5140495 | 5140496 | 5140497 | 5140498 | 5140499 | 5140500 | 5140501 | 5140502 | 5140503 | 5140504 | 5140505 | 5140506 | 5140507 |
| | Mast, E | 12 | 12 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 18 |
| | Boom, W | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1430 | 1445 | 1885 | 1935 | 2695 | 2740 | 2785 | 2850 | 3375 | 3425 | 3475 | 3505 | 3580 |

All dimension shown in inches.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



SERIES 514 360° INSERT MOUNTED FREE STANDING JIB CRANE

51-27 Issued 10-1-85

**1-1/2
TON**

| Height Under Boom in ft. B | | SPAN in feet A | | | | | | | | | | | | |
|--|-----------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 8 | Prod. No. | 5140508 | 5140509 | 5140510 | 5140511 | 5140512 | 5140513 | 5140514 | 5140515 | 5140516 | 5140517 | 5140518 | 5140519 | 5140520 |
| | Mast, E | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1030 | 1055 | 1290 | 1310 | 1340 | 1455 | 1485 | 1690 | 2140 | 2180 | 2455 | 2720 | 2775 |
| 9 | Prod. No. | 5140521 | 5140522 | 5140523 | 5140524 | 5140525 | 5140526 | 5140527 | 5140528 | 5140529 | 5140530 | 5140531 | 5140532 | 5140533 |
| | Mast, E | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1065 | 1090 | 1335 | 1360 | 1390 | 1500 | 1960 | 2155 | 2200 | 2240 | 2520 | 2790 | 2845 |
| 10 | Prod. No. | 5140534 | 5140535 | 5140536 | 5140537 | 5140538 | 5140539 | 5140540 | 5140541 | 5140542 | 5140543 | 5140544 | 5140545 | 5140546 |
| | Mast, E | 12 | 12 | 14 | 14 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1090 | 1120 | 1380 | 1400 | 1865 | 1975 | 2015 | 2215 | 2260 | 2700 | 2575 | 2855 | 2910 |
| 11 | Prod. No. | 5140547 | 5140548 | 5140549 | 5140550 | 5140551 | 5140552 | 5140553 | 5140554 | 5140555 | 5140556 | 5140557 | 5140558 | 5140559 |
| | Mast, E | 12 | 12 | 14 | 14 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 18 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1125 | 1150 | 1420 | 1445 | 1925 | 2040 | 2075 | 2275 | 2320 | 2360 | 2635 | 2925 | 3530 |
| 12 | Prod. No. | 5140560 | 5140561 | 5140562 | 5140563 | 5140564 | 5140565 | 5140566 | 5140567 | 5140568 | 5140569 | 5140570 | 5140571 | 5140572 |
| | Mast, E | 12 | 12 | 14 | 14 | 16 | 16 | 16 | 16 | 16 | 16 | 18 | 18 | 18 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1160 | 1185 | 1465 | 1485 | 1985 | 2100 | 2140 | 2340 | 2380 | 2425 | 2940 | 3575 | 3630 |
| 13 | Prod. No. | 5140573 | 5140574 | 5140575 | 5140576 | 5140577 | 5140578 | 5140579 | 5140580 | 5140581 | 5140582 | 5140583 | 5140584 | 5140585 |
| | Mast, E | 12 | 12 | 14 | 14 | 16 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 20 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1190 | 1215 | 1510 | 1530 | 2045 | 2155 | 2185 | 2395 | 2440 | 2740 | 3005 | 3670 | 4230 |
| 14 | Prod. No. | 5140586 | 5140587 | 5140588 | 5140589 | 5140590 | 5140591 | 5140592 | 5140593 | 5140594 | 5140595 | 5140596 | 5140597 | 5140598 |
| | Mast, E | 12 | 12 | 14 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 18 | 18 | 20 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1220 | 1250 | 1560 | 2075 | 2105 | 2220 | 2530 | 2755 | 2795 | 2830 | 3725 | 3770 | 4345 |
| 15 | Prod. No. | 5140599 | 5140600 | 5140601 | 5140602 | 5140603 | 5140604 | 5140605 | 5140606 | 5140607 | 5140608 | 5140609 | 5140610 | 5140611 |
| | Mast, E | 12 | 12 | 14 | 16 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 20 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1250 | 1280 | 1600 | 2135 | 2435 | 2545 | 2575 | 2820 | 2860 | 2900 | 3825 | 4415 | 4465 |
| 16 | Prod. No. | 5140612 | 5140613 | 5140614 | 5140615 | 5140616 | 5140617 | 5140618 | 5140619 | 5140620 | 5140621 | 5140622 | 5140623 | 5140624 |
| | Mast, E | 12 | 14 | 14 | 16 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 20 | 20 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1285 | 1615 | 1645 | 2195 | 2500 | 2630 | 2660 | 2890 | 2925 | 2965 | 3925 | 4530 | 4585 |
| 17 | Prod. No. | 5140625 | 5140626 | 5140627 | 5140628 | 5140629 | 5140630 | 5140631 | 5140632 | 5140633 | 5140634 | 5140635 | 5140636 | 5140637 |
| | Mast, E | 12 | 14 | 14 | 16 | 18 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 24 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1315 | 1680 | 1680 | 2255 | 2565 | 2700 | 2725 | 2955 | 3330 | 3750 | 4025 | 4650 | 4710 |
| 18 | Prod. No. | 5140638 | 5140639 | 5140640 | 5140641 | 5140642 | 5140643 | 5140644 | 5140645 | 5140646 | 5140647 | 5140648 | 5140649 | 5140650 |
| | Mast, E | 12 | 14 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 20 | 24 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1345 | 1700 | 2295 | 2315 | 2630 | 2750 | 2785 | 3765 | 3800 | 3850 | 4715 | 4770 | 4820 |
| 19 | Prod. No. | 5140651 | 5140652 | 5140653 | 5140654 | 5140655 | 5140656 | 5140657 | 5140658 | 5140659 | 5140660 | 5140661 | 5140662 | 5140663 |
| | Mast, E | 12 | 14 | 16 | 16 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 24 | 24 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1380 | 1750 | 2355 | 2380 | 3500 | 3615 | 3645 | 3860 | 3900 | 3950 | 4835 | 4890 | 4940 |
| 20 | Prod. No. | 5140664 | 5140665 | 5140666 | 5140667 | 5140668 | 5140669 | 5140670 | 5140671 | 5140672 | 5140673 | 5140674 | 5140675 | 5140676 |
| | Mast, E | 12 | 14 | 16 | 16 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 24 | 24 |
| | Boom, W | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 |
| | Weight | 1405 | 1790 | 2415 | 2535 | 3600 | 3715 | 3745 | 3960 | 4000 | 4050 | 4955 | 5005 | 5060 |

All dimensions shown in inches.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.

**2
TON**

**SERIES 514 360° INSERT MOUNTED
FREE STANDING JIB CRANE**

51-28

| Height Under Boom in ft. B | | SPAN in feet A | | | | | | | | | | | | |
|--|-----------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 8 | Prod. No. | 5140677 | 5140678 | 5140679 | 5140680 | 5140681 | 5140682 | 5140683 | 5140684 | 5140685 | 5140686 | 5140687 | 5140688 | 5140689 |
| | Mast, E | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 | 16 | 18 | 18 | 18 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1270 | 1295 | 1395 | 1425 | 1870 | 2060 | 2100 | 2140 | 2370 | 2450 | 2725 | 2775 | 2830 |
| 9 | Prod. No. | 5140690 | 5140691 | 5140692 | 5140693 | 5140694 | 5140695 | 5140696 | 5140697 | 5140698 | 5140699 | 5140700 | 5140701 | 5140702 |
| | Mast, E | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 | 16 | 18 | 18 | 18 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1320 | 1345 | 1445 | 1475 | 1930 | 2125 | 2165 | 2200 | 2435 | 2515 | 2800 | 2845 | 2905 |
| 10 | Prod. No. | 5140703 | 5140704 | 5140705 | 5140706 | 5140707 | 5140708 | 5140709 | 5140710 | 5140711 | 5140712 | 5140713 | 5140714 | 5140715 |
| | Mast, E | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 | 16 | 18 | 18 | 18 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1365 | 1390 | 1490 | 1540 | 1990 | 2185 | 2220 | 2260 | 2505 | 2570 | 2865 | 2915 | 2975 |
| 11 | Prod. No. | 5140716 | 5140717 | 5140718 | 5140719 | 5140720 | 5140721 | 5140722 | 5140723 | 5140724 | 5140725 | 5140726 | 5140727 | 5140728 |
| | Mast, E | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 | 16 | 18 | 18 | 20 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1405 | 1430 | 1530 | 1560 | 2050 | 2245 | 2285 | 2325 | 2565 | 2635 | 2935 | 2985 | 3605 |
| 12 | Prod. No. | 5140729 | 5140730 | 5140731 | 5140732 | 5140733 | 5140734 | 5140735 | 5140736 | 5140737 | 5140738 | 5140739 | 5140740 | 5140741 |
| | Mast, E | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1450 | 1475 | 1575 | 2085 | 2115 | 2310 | 2345 | 2635 | 2875 | 2945 | 3005 | 3645 | 3705 |
| 13 | Prod. No. | 5140742 | 5140743 | 5140744 | 5140745 | 5140746 | 5140747 | 5140748 | 5140749 | 5140750 | 5140751 | 5140752 | 5140753 | 5140754 |
| | Mast, E | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 24 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1495 | 1520 | 1620 | 2145 | 2175 | 2365 | 2405 | 2700 | 2945 | 3010 | 3070 | 3750 | 4315 |
| 14 | Prod. No. | 5140755 | 5140756 | 5140757 | 5140758 | 5140759 | 5140760 | 5140761 | 5140762 | 5140763 | 5140764 | 5140765 | 5140766 | 5140767 |
| | Mast, E | 14 | 14 | 14 | 16 | 16 | 16 | 18 | 18 | 20 | 20 | 20 | 20 | 24 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1545 | 1565 | 1670 | 2205 | 2235 | 2430 | 2735 | 2775 | 3585 | 3745 | 3805 | 3850 | 4440 |
| 15 | Prod. No. | 5140768 | 5140769 | 5140770 | 5140771 | 5140772 | 5140773 | 5140774 | 5140775 | 5140776 | 5140777 | 5140778 | 5140779 | 5140780 |
| | Mast, E | 14 | 14 | 14 | 16 | 18 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1585 | 1610 | 1715 | 2265 | 2570 | 2765 | 2805 | 2845 | 3785 | 3845 | 3905 | 4505 | 4560 |
| 16 | Prod. No. | 5140781 | 5140782 | 5140783 | 5140784 | 5140785 | 5140786 | 5140787 | 5140788 | 5140789 | 5140790 | 5140791 | 5140792 | 5140793 |
| | Mast, E | 14 | 14 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 24 | 24 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 18 | 18 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1630 | 1655 | 2300 | 2330 | 2640 | 2835 | 2870 | 3640 | 3870 | 3950 | 4005 | 4695 | 4680 |
| 17 | Prod. No. | 5140794 | 5140795 | 5140796 | 5140797 | 5140798 | 5140799 | 5140800 | 5140801 | 5140802 | 5140803 | 5140804 | 5140805 | 5140806 |
| | Mast, E | 14 | 14 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 24 | 24 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1675 | 1700 | 2360 | 2390 | 2705 | 2900 | 2940 | 3740 | 3990 | 4050 | 4110 | 4750 | 4800 |
| 18 | Prod. No. | 5140807 | 5140808 | 5140809 | 5140810 | 5140811 | 5140812 | 5140813 | 5140814 | 5140815 | 5140816 | 5140817 | 5140818 | 5140819 |
| | Mast, E | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1715 | 1740 | 2420 | 2450 | 2775 | 2970 | 3805 | 3840 | 4710 | 4765 | 4815 | 4870 | 4925 |
| 19 | Prod. No. | 5140820 | 5140821 | 5140822 | 5140823 | 5140824 | 5140825 | 5140826 | 5140827 | 5140828 | 5140829 | 5140830 | 5140831 | 5140832 |
| | Mast, E | 14 | 16 | 16 | 16 | 18 | 18 | 20 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1765 | 2375 | 2485 | 2515 | 2895 | 3040 | 3905 | 4590 | 4830 | 4885 | 4940 | 4990 | 5045 |
| 20 | Prod. No. | 5140833 | 5140834 | 5140835 | 5140836 | 5140837 | 5140838 | 5140839 | 5140840 | 5140841 | 5140842 | 5140843 | 5140844 | 5140845 |
| | Mast, E | 14 | 16 | 16 | 18 | 18 | 18 | 20 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 10 | 10 | 12 | 12 | 12 | 15 | 15 | 15 | 18 | 18 | 18 | 18 | 18 |
| | Weight | 1810 | 2435 | 2540 | 2885 | 2915 | 3110 | 4005 | 4710 | 4950 | 5005 | 5060 | 5110 | 5165 |

All dimensions shown in inches.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



**SERIES 514 360° INSERT MOUNTED
FREE STANDING JIB CRANE**
51-29 Issued 10-1-85

**3
TON**

| Height Under Boom in ft. B | | SPAN in feet A | | | | | | | | | | | | |
|--|-----------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 8 | Prod. No. | 5140846 | 5140847 | 5140848 | 5140849 | 5140850 | 5140851 | 5140852 | 5140853 | 5140854 | 5140855 | 5140856 | 5140857 | 5140858 |
| | Mast, E | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 24 | 24 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 1705 | 1735 | 1895 | 1935 | 2195 | 2240 | 2470 | 2985 | 3040 | 3300 | 3365 | 3830 | 4245 |
| 9 | Prod. No. | 5140859 | 5140860 | 5140861 | 5140862 | 5140863 | 5140864 | 5140865 | 5140866 | 5140867 | 5140868 | 5140869 | 5140870 | 5140871 |
| | Mast, E | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 24 | 24 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 1765 | 1795 | 1960 | 1995 | 2265 | 2315 | 2540 | 3080 | 3140 | 3400 | 3465 | 3950 | 4370 |
| 10 | Prod. No. | 5140872 | 5140873 | 5140874 | 5140875 | 5140876 | 5140877 | 5140878 | 5140879 | 5140880 | 5140881 | 5140882 | 5140883 | 5140884 |
| | Mast, E | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 24 | 24 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 1825 | 1855 | 2015 | 2050 | 2335 | 2380 | 2610 | 3185 | 3240 | 3495 | 3560 | 4070 | 4490 |
| 11 | Prod. No. | 5140885 | 5140886 | 5140887 | 5140888 | 5140889 | 5140890 | 5140891 | 5140892 | 5140893 | 5140894 | 5140895 | 5140896 | 5140897 |
| | Mast, E | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 24 | 24 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 1885 | 1915 | 2085 | 2115 | 2400 | 2445 | 2675 | 3285 | 3340 | 3595 | 3660 | 4190 | 4610 |
| 12 | Prod. No. | 5140898 | 5140899 | 5140900 | 5140901 | 5140902 | 5140903 | 5140904 | 5140905 | 5140906 | 5140907 | 5140908 | 5140909 | 5140910 |
| | Mast, E | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 24 | 24 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 1945 | 1975 | 2140 | 2175 | 2465 | 2515 | 2740 | 3385 | 3440 | 3700 | 3760 | 4310 | 4725 |
| 13 | Prod. No. | 5140911 | 5140912 | 5140913 | 5140914 | 5140915 | 5140916 | 5140917 | 5140918 | 5140919 | 5140920 | 5140921 | 5140922 | 5140923 |
| | Mast, E | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 2010 | 2040 | 2200 | 2240 | 2530 | 2580 | 2810 | 3480 | 3535 | 3795 | 4370 | 4430 | 4845 |
| 14 | Prod. No. | 5140924 | 5140925 | 5140926 | 5140927 | 5140928 | 5140929 | 5140930 | 5140931 | 5140932 | 5140933 | 5140934 | 5140935 | 5140936 |
| | Mast, E | 16 | 16 | 16 | 16 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 2070 | 2100 | 2260 | 2300 | 2600 | 3300 | 3535 | 3580 | 4170 | 4425 | 4495 | 4550 | 4970 |
| 15 | Prod. No. | 5140937 | 5140938 | 5140939 | 5140940 | 5140941 | 5140942 | 5140943 | 5140944 | 5140945 | 5140946 | 5140947 | 5140948 | 5140949 |
| | Mast, E | 16 | 16 | 16 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 2135 | 2160 | 2320 | 2630 | 2665 | 3395 | 3635 | 3680 | 4290 | 4545 | 4610 | 4670 | 5090 |
| 16 | Prod. No. | 5140950 | 5140951 | 5140952 | 5140953 | 5140954 | 5140955 | 5140956 | 5140957 | 5140958 | 5140959 | 5140960 | 5140961 | 5140962 |
| | Mast, E | 16 | 16 | 16 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 2195 | 2225 | 2385 | 2700 | 3460 | 3500 | 3730 | 4350 | 4410 | 4665 | 4730 | 4790 | 5210 |
| 17 | Prod. No. | 5140963 | 5140964 | 5140965 | 5140966 | 5140967 | 5140968 | 5140969 | 5140970 | 5140971 | 5140972 | 5140973 | 5140974 | 5140975 |
| | Mast, E | 16 | 16 | 16 | 18 | 20 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 2255 | 2285 | 2445 | 2765 | 3560 | 4185 | 4420 | 4470 | 4525 | 4785 | 4850 | 4905 | 5325 |
| 18 | Prod. No. | 5140976 | 5140977 | 5140978 | 5140979 | 5140980 | 5140981 | 5140982 | 5140983 | 5140984 | 5140985 | 5140986 | 5140987 | 5140988 |
| | Mast, E | 16 | 16 | 16 | 18 | 20 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 2320 | 2345 | 2510 | 2830 | 3660 | 4305 | 4540 | 4590 | 4645 | 4900 | 4970 | 5025 | 5445 |
| 19 | Prod. No. | 5140989 | 5140990 | 5140991 | 5140992 | 5140993 | 5140994 | 5140995 | 5140996 | 5140997 | 5140998 | 5140999 | 5141000 | 5141001 |
| | Mast, E | 16 | 16 | 16 | 18 | 20 | 24 | 24 | 24 | 24 | 24 | 24 | 30 | 30 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 2380 | 2410 | 2570 | 2900 | 3755 | 4425 | 4660 | 4710 | 4765 | 5025 | 5090 | 6425 | 6875 |
| 20 | Prod. No. | 5141002 | 5141003 | 5141004 | 5141005 | 5141006 | 5141007 | 5141008 | 5141009 | 5141010 | 5141011 | 5141012 | 5141013 | 5141014 |
| | Mast, E | 16 | 16 | 18 | 18 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 |
| | Boom, W | 12 | 12 | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 |
| | Weight | 2440 | 2470 | 2930 | 2965 | 3860 | 4635 | 4780 | 4825 | 4885 | 5145 | 6520 | 6580 | 7025 |

All dimensions shown in inches.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.

**4
TON**

**SERIES 514 360° INSERT MOUNTED
FREE STANDING JIB CRANE**

51-30

| Height Under Boom in ft. B | | SPAN in feet A | | | | | | | | | | | | |
|----------------------------|-----------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 8 | Prod. No. | 5141015 | 5141016 | 5141017 | 5141018 | 5141019 | 5141020 | 5141021 | 5141022 | 5141023 | 5141024 | 5141025 | 5141026 | 5141027 |
| | Mast, E | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 |
| | Weight | 1810 | 2080 | 2120 | 2155 | 2830 | 2880 | 2935 | 3585 | 3655 | 3710 | 4100 | 4175 | 4245 |
| 9 | Prod. No. | 5141028 | 5141029 | 5141030 | 5141031 | 5141032 | 5141033 | 5141034 | 5141035 | 5141036 | 5141037 | 5141038 | 5141039 | 5141040 |
| | Mast, E | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 |
| | Weight | 1870 | 2150 | 2185 | 2225 | 2930 | 2980 | 3035 | 3705 | 3770 | 3830 | 4220 | 4295 | 4370 |
| 10 | Prod. No. | 5141041 | 5141042 | 5141043 | 5141044 | 5141045 | 5141046 | 5141047 | 5141048 | 5141049 | 5141050 | 5141051 | 5141052 | 5141053 |
| | Mast, E | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 |
| | Weight | 1935 | 2215 | 2250 | 2290 | 3030 | 3080 | 3135 | 3825 | 3890 | 3950 | 4335 | 4215 | 4490 |
| 11 | Prod. No. | 5141054 | 5141055 | 5141056 | 5141057 | 5141058 | 5141059 | 5141060 | 5141061 | 5141062 | 5141063 | 5141064 | 5151065 | 5141066 |
| | Mast, E | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 |
| | Weight | 1995 | 2280 | 2320 | 2355 | 3130 | 3180 | 3235 | 3940 | 4010 | 4065 | 4455 | 4530 | 4610 |
| 12 | Prod. No. | 5141067 | 5141068 | 5141069 | 5141070 | 5141071 | 5141072 | 5141073 | 5141074 | 5141075 | 5141076 | 5141077 | 5141078 | 5141079 |
| | Mast, E | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 |
| | Weight | 2055 | 2350 | 2385 | 2425 | 3230 | 3280 | 3335 | 4060 | 4130 | 4185 | 4575 | 4650 | 4725 |
| 13 | Prod. No. | 5141080 | 5141081 | 5141082 | 5141083 | 5141084 | 5141085 | 5141086 | 5141087 | 5141088 | 5141089 | 5141090 | 5141091 | 5141092 |
| | Mast, E | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 |
| | Weight | 2120 | 2415 | 2450 | 2490 | 3325 | 3375 | 3435 | 4185 | 4250 | 4310 | 4700 | 4775 | 4845 |
| 14 | Prod. No. | 5141093 | 5141094 | 5141095 | 5141096 | 5141097 | 5141098 | 5141099 | 5141100 | 5141101 | 5141102 | 5141103 | 5141104 | 5141105 |
| | Mast, E | 16 | 18 | 18 | 18 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 |
| | Weight | 2180 | 2480 | 2520 | 2555 | 3430 | 3475 | 4085 | 4305 | 4370 | 4430 | 4815 | 4895 | 4970 |
| 15 | Prod. No. | 5141106 | 5141107 | 5141108 | 5141109 | 5141110 | 5141111 | 5141112 | 5141113 | 5141114 | 5141115 | 5141116 | 5141117 | 5141118 |
| | Mast, E | 16 | 18 | 18 | 18 | 20 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 30 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 |
| | Weight | 2245 | 2545 | 2585 | 2620 | 3530 | 4145 | 4205 | 4420 | 4490 | 4545 | 4955 | 5010 | 6265 |
| 16 | Prod. No. | 5141119 | 5141120 | 5141121 | 5141122 | 5141123 | 5141124 | 5141125 | 5141126 | 5141127 | 5141128 | 5141129 | 5141130 | 5141131 |
| | Mast, E | 16 | 18 | 18 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 30 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 |
| | Weight | 2305 | 2615 | 2650 | 3410 | 3625 | 4265 | 4320 | 4540 | 4610 | 4665 | 5055 | 5130 | 6420 |
| 17 | Prod. No. | 5141132 | 5141133 | 5141134 | 5141135 | 5141136 | 5141137 | 5141138 | 5141139 | 5141140 | 5141141 | 5141142 | 5141143 | 5141144 |
| | Mast, E | 16 | 18 | 18 | 20 | 20 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 24 | 24 | 24 | 24 |
| | Weight | 2365 | 2680 | 2720 | 3510 | 3725 | 4385 | 4440 | 4660 | 4725 | 6345 | 6420 | 6495 | 6570 |
| 18 | Prod. No. | 5141145 | 5141146 | 5141147 | 5141148 | 5141149 | 5141150 | 5141151 | 5141152 | 5141153 | 5141154 | 5141155 | 5141156 | 5141157 |
| | Mast, E | 16 | 18 | 18 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 24 | 24 | 24 | 24 |
| | Weight | 2430 | 2745 | 2785 | 3610 | 4460 | 4505 | 4565 | 4785 | 4850 | 6495 | 6570 | 6645 | 6720 |
| 19 | Prod. No. | 5141158 | 5141159 | 5141160 | 5141161 | 5141162 | 5141163 | 5141164 | 5141165 | 5141166 | 5141167 | 5141168 | 5141169 | 5141170 |
| | Mast, E | 16 | 18 | 18 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2490 | 2815 | 2850 | 4340 | 4580 | 4625 | 4685 | 4400 | 6570 | 6645 | 6720 | 6800 | 6975 |
| 20 | Prod. No. | 5141171 | 5141172 | 5141173 | 5141174 | 5141175 | 5141176 | 5141177 | 5141178 | 5141179 | 5141180 | 5141181 | 5141182 | 5141183 |
| | Mast, E | 16 | 18 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 15 | 15 | 18 | 18 | 18 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2550 | 2880 | 3770 | 4460 | 4700 | 4745 | 4800 | 5020 | 6720 | 6800 | 6875 | 6950 | 7025 |

All dimensions shown in inches.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



**SERIES 514 360° INSERT MOUNTED
FREE STANDING JIB CRANE**
51-31 Issued 10-1-85

**5
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| Height Under Boom in ft. B | | SPAN in feet A | | | | | | | | | | | | |
|--|-----------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 8 | Prod. No. | 5141184 | 5141185 | 5141186 | 5141187 | 5141188 | 5141189 | 5141190 | 5141191 | 5141192 | 5141193 | 5141194 | 5141195 | 5141196 |
| | Mast, E | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2035 | 2535 | 2730 | 2775 | 3245 | 3465 | 3530 | 3585 | 3950 | 4940 | 5570 | 5670 | 5770 |
| 9 | Prod. No. | 5141197 | 5141198 | 5141199 | 5141200 | 5141201 | 5141202 | 5141203 | 5141204 | 5141205 | 5141206 | 5141207 | 5141208 | 5141209 |
| | Mast, E | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2100 | 2640 | 2830 | 2875 | 3365 | 3580 | 3650 | 3705 | 4065 | 5145 | 5715 | 5820 | 5920 |
| 10 | Prod. No. | 5141210 | 5141211 | 5141212 | 5141213 | 5141214 | 5141215 | 5141216 | 5141217 | 5141218 | 5141219 | 5141220 | 5141221 | 5141222 |
| | Mast, E | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2165 | 2735 | 2930 | 2975 | 3480 | 3700 | 3510 | 3825 | 4185 | 5300 | 5465 | 5970 | 6070 |
| 11 | Prod. No. | 5141223 | 5141224 | 5141225 | 5141226 | 5141227 | 5141228 | 5141229 | 5141230 | 5141231 | 5141232 | 5141233 | 5141234 | 5141235 |
| | Mast, E | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2235 | 2835 | 3025 | 3075 | 3600 | 3820 | 3885 | 3945 | 4305 | 5445 | 6015 | 6120 | 6220 |
| 12 | Prod. No. | 5141236 | 5141237 | 5141238 | 5141239 | 5141240 | 5141241 | 5141242 | 5141243 | 5141244 | 5141245 | 5141246 | 5141247 | 5141248 |
| | Mast, E | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2300 | 2935 | 3125 | 3175 | 3720 | 3940 | 4005 | 4060 | 4425 | 5595 | 6165 | 6270 | 6370 |
| 13 | Prod. No. | 5141249 | 5141250 | 5141251 | 5141252 | 5141253 | 5141254 | 5141255 | 5141256 | 5141257 | 5141258 | 5141259 | 5141260 | 5141261 |
| | Mast, E | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2365 | 3035 | 3235 | 3275 | 3840 | 4055 | 4125 | 4185 | 4540 | 5745 | 6315 | 6420 | 6515 |
| 14 | Prod. No. | 5141262 | 5141263 | 5141264 | 5141265 | 5141266 | 5141267 | 5141268 | 5141269 | 5141270 | 5141271 | 5141272 | 5141273 | 5141274 |
| | Mast, E | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2435 | 3135 | 3325 | 3370 | 3960 | 4180 | 4245 | 4305 | 4665 | 5895 | 6465 | 6570 | 6665 |
| 15 | Prod. No. | 5141275 | 5141276 | 5141277 | 5141278 | 5141279 | 5141280 | 5141281 | 5141282 | 5141283 | 5141284 | 5141285 | 5141286 | 5141287 |
| | Mast, E | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2510 | 3235 | 3425 | 3470 | 4080 | 4300 | 4365 | 4420 | 4785 | 6045 | 6615 | 6715 | 6810 |
| 16 | Prod. No. | 5141288 | 5141289 | 5141290 | 5141291 | 5141292 | 5141293 | 5141294 | 5141295 | 5141296 | 5141297 | 5141298 | 5141299 | 5141300 |
| | Mast, E | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2575 | 3335 | 3535 | 3570 | 4200 | 4420 | 4485 | 4825 | 6120 | 6195 | 6765 | 6870 | 6970 |
| 17 | Prod. No. | 5141301 | 5141302 | 5141303 | 5141304 | 5141305 | 5141306 | 5141307 | 5141308 | 5141309 | 5141310 | 5141311 | 5141312 | 5141313 |
| | Mast, E | 18 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2640 | 3435 | 3625 | 3670 | 4320 | 4535 | 4600 | 4945 | 6270 | 6345 | 6915 | 7020 | 7120 |
| 18 | Prod. No. | 5141314 | 5141315 | 5141316 | 5141317 | 5141318 | 5141319 | 5141320 | 5141321 | 5141322 | 5141323 | 5141324 | 5141325 | 5141326 |
| | Mast, E | 18 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2710 | 3535 | 3725 | 4385 | 4460 | 4660 | 4995 | 5070 | 6420 | 6500 | 7065 | 7170 | 7270 |
| 19 | Prod. No. | 5141327 | 5141328 | 5141329 | 5141330 | 5141331 | 5141332 | 5141333 | 5141334 | 5141335 | 5141336 | 5141337 | 5141338 | 5141339 |
| | Mast, E | 18 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2775 | 3635 | 3825 | 4505 | 4580 | 4780 | 5110 | 5190 | 6570 | 6645 | 7215 | 7320 | 7420 |
| 20 | Prod. No. | 5141340 | 5141341 | 5141342 | 5141343 | 5141344 | 5141345 | 5141346 | 5141347 | 5141348 | 5141349 | 5141350 | 5141351 | 5141352 |
| | Mast, E | 18 | 20 | 20 | 24 | 24 | 24 | 24 | 30 | 30 | 30 | 30 | 30 | 30 |
| | Boom, W | 15 | 15 | 18 | 18 | 18 | 20 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Weight | 2840 | 3730 | 3925 | 4620 | 4700 | 4900 | 5230 | 6645 | 6720 | 6800 | 7370 | 7470 | 7575 |

All dimensions shown in inches.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.

**1/4 to 5
TONS**

**SERIES 514 360° INSERT MOUNTED
FREE STANDING JIB CRANE**

51-32

STANDARD EQUIPMENT SPECIFICATIONS

DESIGN FACTORS: Standard capacity ratings shall represent the net rated load at the hook of any type of hoist with the same load rating installed on the jib crane having a hoist trolley weight within the established limits. The jib crane shall be so designed in the load-carrying parts that the calculated static stress in the material based on the rated load, shall not exceed 20% of the published average ultimate strength of the material. This limitation of stress provides a margin to allow for variations in the properties of materials, manufacturing and operation conditions, and design assumptions. Design load for stress calculations shall be based upon the capacity plus 15% for the weight of the hoist and trolley and an additional 25% for impact (capacity X 1.4). However, under no condition shall the crane be loaded beyond its rated capacity.

BOOM: Boom beam shall be constructed in accord with AISC specifications. Under full load the beam deflection shall not exceed 1/150 of the span. Design load for deflection calculation shall be based upon the capacity plus 15% for the weight of the hoist and trolley (capacity X 1.15). Boom beam shall be selected structural steel member and shall provide level and straight tread surfaces for the hoist trolleys. The beam shall have adequate lateral stiffness with minimum lateral moment of inertia of 1/20 that of the vertical moment of inertia. Boom shall be reinforced when required with channel capping for added strength and lateral stability.

MAST: The jib crane masts shall be constructed from structural pipe of proper diameter to give a minimum of deflection and sufficient wall strength to resist crushing and wear at the lower roller assembly.

HEAD ASSEMBLY: The head assembly shall be constructed of standard steel plate and designed to limit deflection and provide resistance to dislodgement in both outward and upward directions. The boom shall be attached to the jib head front and back through large, heavy duty plates and channels which will distribute boom loading forces through reinforcing channels to the lower roller assembly of the head, and through the bearing to the pivot pin on top of the jib mast. Jib heads made from plate only, without reinforcing channels, are not acceptable.

The head assembly shall allow for an enclosed collector assembly to be installed inside the head, and be able to be installed independently of the boom.

BEARINGS: The boom support top bearing shall be heavy-duty tapered roller bearing with a minimum average life of 10,000 hours. The bearing assembly shall have provision for a retaining pin in double shear above the top pivot bearing. The lower roller assembly bearing shall be adjustable and have two (2) large diameter rollers with each roller having a minimum of two (2) heavy-duty roller bearings operating on hardened bolts with provisions for pressure grease lubrication.

PAINTING: The jib crane shall be painted before shipment with a prime and finish coat of a lead-free alkyd air-dry enamel. The prime coat is a buff color with a semi-gloss finish. The finish coat is a yellow oxide with a full gloss finish.

OPERATING AND MAINTENANCE: Proper erection instructions, parts list and maintenance instructions will be furnished with the crane.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



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Acco Products Division

A division of Babcock Industries Inc.

Issued 10-1-85
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51-33

SERIES 515 **MAST TYPE CANTILEVER** **JIB CRANE**

CAPACITIES 1/2 to 5 TONS
SPANS 8 to 20 FEET



CONSTRUCTION FEATURES

TOP BEARING ASSEMBLY: A self-aligning uni-ball radial bearing fitted to the pivot pin provides both a rigid connection and ease of rotation. The bearing is pressed into a machined housing welded to the top mounting plate, which is bolted to the supporting structure. A grease fitting enables proper field lubrication.

BOTTOM BEARING ASSEMBLY: A machined housing welded to the bottom mounting plate which is bolted to the floor is utilized to provide a quality connection and easy installation. A bronze olite bushing and thrust washer provide easy rotation with minimal drift. The bearing assembly is self-lubricating and operates ideally under heavy loads at moderate speeds.

MAST BOOM: The mast is a wide flange steel beam, and the boom is a steel I beam. Stiffeners are placed at critical stress points in the mast, and removable trolley stops are bolted to the boom. The mast boom connection is made using one plate welded to the top of the mast and bolted to the boom, and a second plate welded to the inside end of the boom and bolted to the mast.

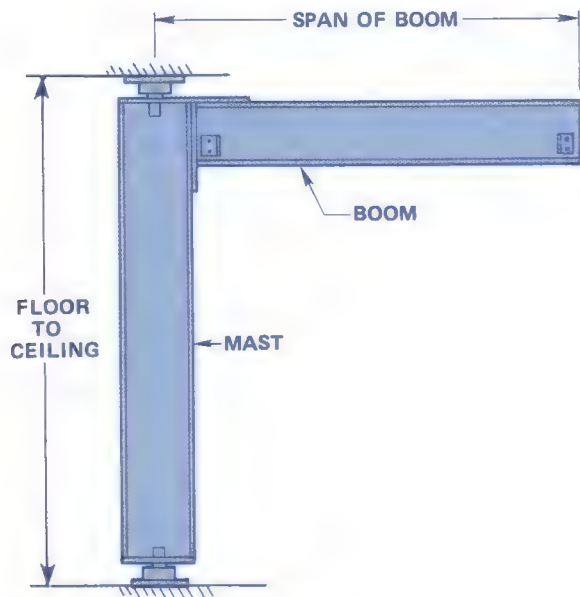
The Acco Series 515 Mast Type Cantilever Jib Crane is an excellent choice where full 360° rotation is desired to provide complete work area coverage, as long as adequate structural support is available to stabilize the crane mast at the top. Because of the top and bottom mounting, the mast type crane exerts the least amount of force on the supporting structure of any of our five basic jib crane designs. No special foundation requirements are necessary for the installation of this jib crane.

The cantilever beam design of the 515 provides a maximum amount of overhead lift. Full 360° rotation is possible when combined with a hand operated hoist. When a powered hoist is used, provision must be made to limit rotation to less than 360°.

All fittings are of structural steel components manufactured to avoid reliance upon casting or tension welds. The components are bolted together to allow for ease of installation.

HOW TO SPECIFY ACCO SERIES 515 BASE MOUNTED MAST TYPE JIB CRANE.

1. Determine the capacity, span of boom, and floor to ceiling height.



2. Specify proper product number in regards to jib crane capacity, span, and floor to ceiling height in the following pages.
3. Specify the boom location. Two models of boom supports are available. The standard full cantilever allows the boom closer to overhead support thus allowing maximum amount of hoist lift. The optional drop cantilever model provides the advantage of being able to top stabilize the unit and bring the boom down below any overhead obstruction. It can be dropped to any desirable dimension beyond the minimum.
4. Specify size of mast and boom. The E & W number designates size of mast, E, and boom, W. By using boom size, W, the flange width may be found in the following chart.

| STANDARD BOOM DATA | | |
|--------------------|-----------|------------------|
| Boom Height in. | Beam Size | Flange Width in. |
| 6 | 6S12.5 # | 3 3/8 |
| 7 | 7S15.3 # | 3 5/8 |
| 8 | 8S18.4 # | 4 |
| 10 | 10S25.4 # | 4 5/8 |
| 12 | 12S31.8 # | 5 |
| 15 | 15S42.9 # | 5 1/2 |
| 18 | 18S54.7 # | 6 |
| 20 | 20S66 # | 6 1/4 |
| 24 | 24S80 # | 7 |

5. Specify the pivot number Mast type jib cranes are designed with a standard range of top and bottom pivot bracket assemblies. By using this number, minimum overhead clearance, bolt pattern, and size of base plate may be found in the following chart.

| Pivot Number | Pivot Bracket Dimensions | | | | Minimum D Dimension | |
|--------------|--------------------------|-------|-------|-------|---------------------|----------------|
| | F in. | G in. | H in. | J in. | Standard Model | Optional Model |
| 15 | 7 | 9 | 10 | 12 | 3 3/4 | 13 5/8 |
| 20 | 7 | 10 | 10 | 13 | 4 1/4 | 14 1/8 |
| 25 | 9 | 12 | 12 | 15 | 4 3/4 | 14 5/8 |

6. Select desired Acco hoist.

Section 10 for Hand Operated Hoist, 1/4 to 5 tons
 Section 20 for *Wright-way*® Electric Hoist, 1/4 to 2 tons
 Section 21 for *Wright-way*® Air Operated Hoist, 1/4 to 2 tons
 Section 30 for *Work-rated*® Electric Hoist, 1 to 5 tons

7. Specify other modifications and accessories. See page 51-41 for further specifications.

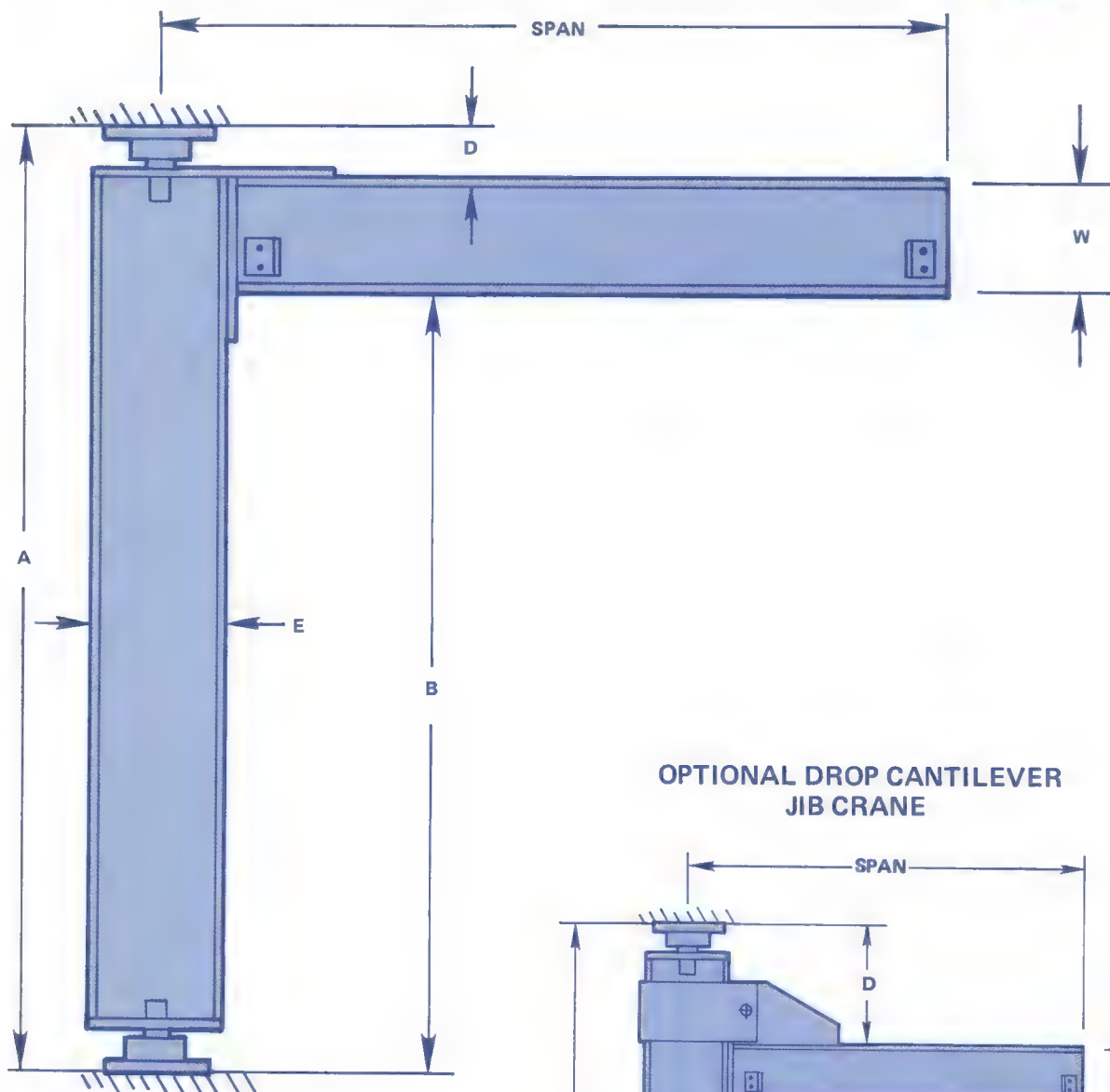
WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.

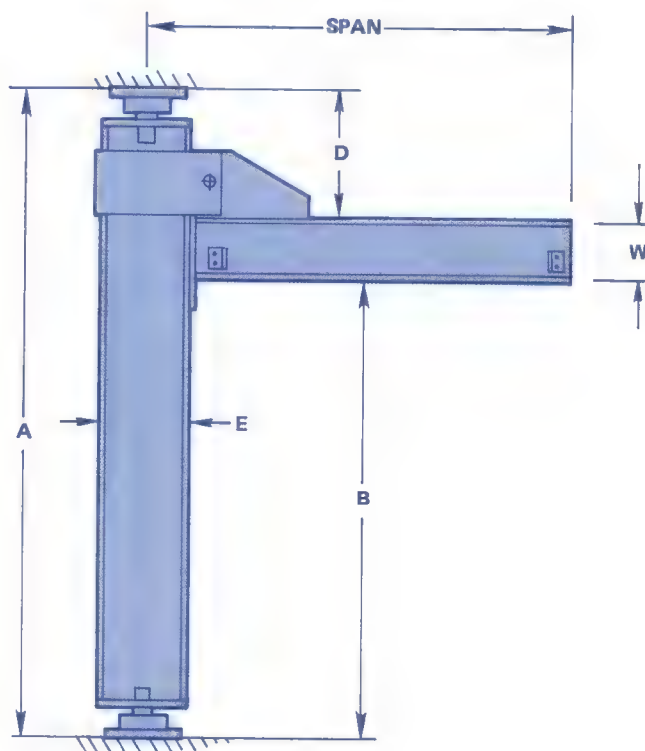


**SERIES 515 MAST TYPE CANTILEVER
JIB CRANE**
51-35 Issued 10-1-85

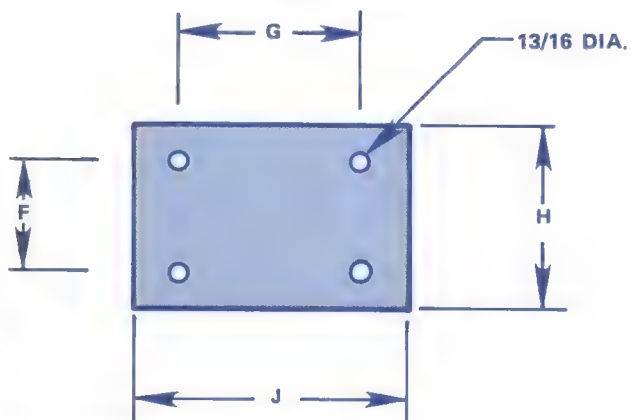
**1/4 to 5
TONS**



**OPTIONAL DROP CANTILEVER
JIB CRANE**



MOUNTING BOLT PATTERN



All dimensions shown in inches.

1/4 to 1/2 TONS

SERIES 515 MAST TYPE CANTILEVER JIB CRANE

51-36

| Capacity in Tons | Floor to Ceiling A ft. | | Span in feet | | | | | | |
|------------------------|------------------------------------|-------------|--------------|---------|---------|---------|---------|---------|---------|
| | | | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| 1/4 | 10 | Product No. | 5150001 | 5150002 | 5150003 | 5150004 | 5150005 | 5150006 | 5150007 |
| | | Mast, E | 8 | 8 | 8 | 8 | 8 | 10 | 10 |
| | | Boom, W | 6 | 6 | 7 | 8 | 8 | 10 | 10 |
| | | Pivot No. | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | | Weight | 430 | 465 | 525 | 600 | 635 | 865 | 920 |
| | 12 | Product No. | 5150008 | 5150009 | 5150010 | 5150011 | 5150012 | 5150013 | 5150014 |
| | | Mast, E | 8 | 8 | 8 | 8 | 8 | 10 | 10 |
| | | Boom, W | 6 | 6 | 7 | 8 | 8 | 10 | 10 |
| | | Pivot No. | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | 14 | Product No. | 5150015 | 5150016 | 5150017 | 5150018 | 5150019 | 5150020 | 5150021 |
| | | Mast, E | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | | Boom, W | 6 | 6 | 7 | 8 | 8 | 10 | 10 |
| | | Pivot No. | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | 16 | Product No. | 5150022 | 5150023 | 5150024 | 5150025 | 5150026 | 5150027 | 5150028 |
| | | Mast, E | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | | Boom, W | 6 | 6 | 7 | 8 | 8 | 10 | 10 |
| | | Pivot No. | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | 18 | Product No. | 5150029 | 5150030 | 5150031 | 5150032 | 5150033 | 5150034 | 5150035 |
| | | Mast, E | 8 | 8 | 8 | 8 | 10 | 10 | 10 |
| | | Boom, W | 6 | 6 | 7 | 8 | 8 | 10 | 10 |
| | | Pivot No. | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | 20 | Product No. | 5150036 | 5150037 | 5150038 | 5150039 | 5150040 | 5150041 | 5150042 |
| | | Mast, E | 8 | 8 | 8 | 10 | 10 | 10 | 14 |
| | | Boom, W | 6 | 6 | 7 | 8 | 8 | 10 | 10 |
| | | Pivot No. | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | 20 | Weight | 610 | 635 | 695 | 880 | 915 | 1075 | 1340 |
| 1/2 | 10 | Product No. | 5150043 | 5150044 | 5150045 | 5150046 | 5150047 | 5150048 | 5150049 |
| | | Mast, E | 8 | 10 | 10 | 14 | 14 | 14 | 14 |
| | | Boom, W | 6 | 7 | 8 | 10 | 10 | 12 | 12 |
| | | Pivot No. | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | 12 | Product No. | 5150050 | 5150051 | 5150052 | 5150053 | 5150054 | 5150055 | 5150056 |
| | | Mast, E | 8 | 10 | 10 | 14 | 14 | 14 | 14 |
| | | Boom, W | 6 | 7 | 8 | 10 | 10 | 12 | 12 |
| | | Pivot No. | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | 14 | Product No. | 5150057 | 5150058 | 5150059 | 5150060 | 5150061 | 5150062 | 5150063 |
| | | Mast, E | 8 | 10 | 10 | 14 | 14 | 14 | 14 |
| | | Boom, W | 6 | 7 | 8 | 10 | 10 | 12 | 12 |
| | | Pivot No. | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | 16 | Product No. | 5150064 | 5150065 | 5150066 | 5150067 | 5150068 | 5150069 | 5150070 |
| | | Mast, E | 8 | 10 | 10 | 14 | 14 | 14 | 14 |
| | | Boom, W | 6 | 7 | 8 | 10 | 10 | 12 | 12 |
| | | Pivot No. | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | 18 | Product No. | 5150071 | 5150072 | 5150073 | 5150074 | 5150075 | 5150076 | 5150077 |
| | | Mast, E | 8 | 10 | 10 | 14 | 14 | 14 | 14 |
| | | Boom, W | 6 | 7 | 8 | 10 | 10 | 12 | 12 |
| | | Pivot No. | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | 20 | Product No. | 5150078 | 5150079 | 5150080 | 5150081 | 5150082 | 5150083 | 5150084 |
| | | Mast, E | 10 | 10 | 10 | 14 | 14 | 14 | 16 |
| | | Boom, W | 6 | 7 | 8 | 10 | 10 | 12 | 12 |
| | | Pivot No. | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | 20 | Weight | 720 | 775 | 840 | 1180 | 1230 | 1400 | 1610 |

All dimensions shown in inches.

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SERIES 515 MAST TYPE CANTILEVER JIB CRANES

51-37 Issued 10-1-85

**1 to 1-1/2
TON**

| Capacity in Tons | Floor to Ceiling A ft. | | Span in feet | | | | | | |
|------------------------|------------------------------------|--|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| | | | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| 1 | 10 | Product No. Mast, E Boom, W Pivot No. Weight | 5150085 10 8 15 550 | 5150086 14 10 15 780 | 5150087 14 10 15 830 | 5150088 14 12 15 970 | 5150089 14 12 15 1035 | 5150090 16 15 20 1405 | 5150091 16 15 20 1495 |
| | 12 | Product No. Mast, E Boom, W Pivot No. Weight | 5150092 10 8 15 595 | 5150093 14 10 15 840 | 5150094 14 10 15 890 | 5150095 14 12 15 1030 | 5150096 14 12 15 1095 | 5150097 16 15 15 1460 | 5150098 16 15 20 1565 |
| | 14 | Product No. Mast, E Boom, W Pivot No. Weight | 5150099 10 8 15 635 | 5150100 14 10 15 900 | 5150101 14 10 15 950 | 5150102 14 12 15 1090 | 5150103 14 12 15 1155 | 5150104 16 15 15 1530 | 5150105 16 15 15 1615 |
| | 16 | Product No. Mast, E Boom, W Pivot No. Weight | 5150106 10 8 15 680 | 5150107 14 10 15 960 | 5150108 14 10 15 1010 | 5150109 14 12 15 1150 | 5150110 16 12 15 1340 | 5150111 16 15 15 1605 | 5150112 18 15 15 1945 |
| | 18 | Product No. Mast, E Boom, W Pivot No. Weight | 5150113 14 8 15 910 | 5150114 14 10 15 1020 | 5150115 14 10 15 1070 | 5150116 16 12 15 1350 | 5150117 16 12 15 1410 | 5150118 18 15 15 1955 | 5150119 18 15 15 2045 |
| | 20 | Product No. Mast, E Boom, W Pivot No. Weight | 5150120 14 8 15 910 | 5150121 14 10 15 1080 | 5150122 14 10 15 1130 | 5150123 16 12 15 1420 | 5150124 16 12 15 1485 | 5150125 18 15 15 2055 | 5150126 18 15 15 2145 |
| 1-1/2 | 10 | Product No. Mast, E Boom, W Pivot No. Weight | 5150127 14 10 15 730 | 5150128 14 10 15 780 | 5150129 14 12 15 925 | 5150130 16 15 20 1230 | 5150131 16 15 20 1320 | 5150132 18 18 20 1790 | 5150133 18 18 20 1890 |
| | 12 | Product No. Mast, E Boom, W Pivot No. Weight | 5150134 14 10 15 790 | 5150135 14 10 15 840 | 5150136 14 12 15 965 | 5150137 16 15 20 1310 | 5150138 16 15 20 1395 | 5150139 18 18 20 1890 | 5150140 18 18 20 2000 |
| | 14 | Product No. Mast, E Boom, W Pivot No. Weight | 5150141 14 10 15 850 | 5150142 14 10 15 900 | 5150143 14 12 15 1025 | 5150144 16 15 15 1360 | 5150145 18 15 15 1685 | 5150146 18 18 20 1990 | 5150147 18 18 20 2100 |
| | 16 | Product No. Mast, E Boom, W Pivot No. Weight | 5150148 14 10 15 910 | 5150149 14 10 15 960 | 5150150 16 12 15 1210 | 5150151 16 15 15 1430 | 5150152 18 15 15 1770 | 5150153 18 18 20 2090 | 5150154 18 18 20 2200 |
| | 18 | Product No. Mast, E Boom, W Pivot No. Weight | 5150155 14 10 15 970 | 5150156 16 10 15 1150 | 5150157 16 12 15 1280 | 5150158 18 15 15 1785 | 5150159 18 15 15 1870 | 5150160 18 18 15 2170 | 5150161 18 18 20 2300 |
| | 20 | Product No. Mast, E Boom, W Pivot No. Weight | 5150162 14 10 15 1030 | 5150163 16 10 15 1225 | 5150164 16 12 15 1355 | 5150165 18 15 15 1885 | 5150166 18 15 15 1970 | 5150167 18 18 15 2270 | 5150168 21 18 15 2650 |

All dimensions shown in inches.

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WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.

2 to 3 TONS

SERIES 515 MAST TYPE CANTILEVER JIB CRANES

51-38

| Capacity in Tons | Floor to Ceiling A ft. | | Span in feet | | | | | | |
|------------------------|------------------------------------|-------------|--------------|---------|---------|---------|---------|---------|---------|
| | | | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| 2 | 10 | Product No. | 5150169 | 5150170 | 5150171 | 5150172 | 5150173 | 5150174 | 5150175 |
| | | Mast, E | 14 | 14 | 16 | 16 | 18 | 18 | 21 |
| | | Boom, W | 10 | 12 | 15 | 15 | 18 | 18 | 20 |
| | | Pivot No. | 15 | 20 | 20 | 20 | 20 | 25 | 25 |
| | 12 | Weight | 730 | 865 | 1145 | 1230 | 1675 | 1810 | 2280 |
| | | Product No. | 5150176 | 5150177 | 5150178 | 5150179 | 5150180 | 5150181 | 5150182 |
| | | Mast, E | 14 | 14 | 16 | 16 | 18 | 18 | 21 |
| | | Boom, W | 10 | 12 | 15 | 15 | 18 | 18 | 20 |
| | | Pivot No. | 15 | 20 | 20 | 20 | 20 | 20 | 20 |
| | | Weight | 790 | 925 | 1215 | 1310 | 1740 | 1890 | 2385 |
| | 14 | Product No. | 5150183 | 5150184 | 5150185 | 5150186 | 5150187 | 5150188 | 5150189 |
| | | Mast, E | 14 | 16 | 16 | 18 | 18 | 18 | 21 |
| | | Boom, W | 10 | 12 | 15 | 15 | 18 | 18 | 20 |
| | | Pivot No. | 15 | 15 | 20 | 20 | 20 | 20 | 20 |
| | 16 | Weight | 850 | 1070 | 1295 | 1600 | 1880 | 1990 | 2510 |
| | | Product No. | 5150190 | 5150191 | 5150192 | 5150193 | 5150194 | 5150195 | 5150196 |
| | | Mast, E | 14 | 16 | 18 | 18 | 18 | 18 | 21 |
| | | Boom, W | 10 | 12 | 15 | 15 | 18 | 18 | 20 |
| | 18 | Pivot No. | 15 | 15 | 15 | 20 | 20 | 20 | 20 |
| | | Weight | 910 | 1145 | 1595 | 1700 | 1980 | 2090 | 2635 |
| | | Product No. | 5150197 | 5150198 | 5150199 | 5150200 | 5150201 | 5150202 | 5150203 |
| | | Mast, E | 16 | 16 | 18 | 18 | 18 | 21 | 21 |
| 3 | 10 | Boom, W | 10 | 12 | 15 | 15 | 18 | 18 | 20 |
| | | Pivot No. | 15 | 15 | 15 | 15 | 20 | 20 | 20 |
| | | Weight | 1100 | 1215 | 1695 | 1785 | 2080 | 2435 | 2765 |
| | 12 | Product No. | 5150204 | 5150205 | 5150206 | 5150207 | 5150208 | 5150209 | 5150210 |
| | | Mast, E | 16 | 18 | 18 | 18 | 18 | 21 | 21 |
| | | Boom, W | 10 | 12 | 15 | 15 | 18 | 18 | 20 |
| | | Pivot No. | 15 | 15 | 15 | 15 | 15 | 20 | 20 |
| | 14 | Weight | 1175 | 1600 | 1800 | 1885 | 2160 | 2560 | 2890 |
| | | Product No. | 5150211 | 5150212 | 5150213 | 5150214 | 5150215 | 5150216 | 5150217 |
| | | Mast, E | 16 | 16 | 18 | 18 | 21 | 21 | 21 |
| | | Boom, W | 12 | 15 | 15 | 18 | 20 | 20 | 24 |
| | 12 | Pivot No. | 20 | 20 | 20 | 25 | 25 | 25 | 25 |
| | | Weight | 885 | 1060 | 1315 | 1585 | 2015 | 2145 | 2575 |
| | | Product No. | 5150218 | 5150219 | 5150220 | 5150221 | 5150222 | 5150223 | 5150224 |
| | | Mast, E | 16 | 16 | 18 | 18 | 21 | 21 | 21 |
| | 14 | Boom, W | 12 | 15 | 15 | 18 | 20 | 20 | 24 |
| | | Pivot No. | 20 | 20 | 20 | 25 | 25 | 25 | 25 |
| | | Weight | 955 | 1130 | 1415 | 1685 | 2140 | 2270 | 2705 |
| | 16 | Product No. | 5150225 | 5150226 | 5150227 | 5150228 | 5150229 | 5150230 | 5150231 |
| | | Mast, E | 16 | 18 | 18 | 18 | 21 | 21 | 21 |
| | | Boom, W | 12 | 15 | 15 | 18 | 20 | 20 | 24 |
| | | Pivot No. | 20 | 20 | 20 | 20 | 25 | 25 | 25 |
| | 18 | Weight | 1030 | 1430 | 1515 | 1770 | 2265 | 2400 | 2830 |
| | | Product No. | 5150232 | 5150233 | 5150234 | 5150235 | 5150236 | 5150237 | 5150238 |
| | | Mast, E | 18 | 18 | 18 | 18 | 21 | 21 | 24 |
| | | Boom, W | 12 | 15 | 15 | 18 | 20 | 20 | 24 |
| 3 | 16 | Pivot No. | 15 | 20 | 20 | 20 | 20 | 25 | 25 |
| | | Weight | 1335 | 1530 | 1615 | 1870 | 2370 | 2525 | 3200 |
| | 18 | Product No. | 5150239 | 5150240 | 5150241 | 5150242 | 5150243 | 5150244 | 5150245 |
| | | Mast, E | 18 | 18 | 18 | 21 | 21 | 24 | 24 |
| | | Boom, W | 12 | 15 | 15 | 18 | 20 | 20 | 24 |
| | | Pivot No. | 15 | 15 | 20 | 20 | 20 | 20 | 25 |
| | 20 | Weight | 1435 | 1715 | 1720 | 2210 | 2495 | 2910 | 3360 |
| | | Product No. | 5150246 | 5150247 | 5150248 | 5150249 | 5150250 | 5150251 | 5150252 |
| | | Mast, E | 18 | 18 | 18 | 21 | 21 | 24 | 24 |
| | | Boom, W | 12 | 15 | 15 | 18 | 20 | 20 | 24 |
| | | Pivot No. | 15 | 15 | 20 | 20 | 20 | 20 | 25 |
| | | Weight | 1535 | 1815 | 1820 | 2340 | 2620 | 3060 | 3510 |

All dimensions shown in inches.

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WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



SERIES 515 MAST TYPE CANTILEVER JIB CRANE

51-39 Issued 10-1-85

**4 to 5
TONS**

| Capacity in Tons | Floor to Ceiling A ft. | | Span in feet | | | | | | |
|------------------------|------------------------------------|--|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| | | | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| 4 | 10 | Product No. Mast, E Boom, W Pivot No. Weight | 5150253 18 15 20 1140 | 5150254 18 15 25 1245 | 5150255 18 18 25 1475 | 5150256 21 20 25 1885 | 5150257 21 20 25 2035 | 5150258 21 24 25 2435 | 5150259 24 24 25 3285 |
| | 12 | Product No. Mast, E Boom, W Pivot No. Weight | 5150260 18 15 20 1240 | 5150261 18 15 25 1350 | 5150262 18 18 25 1575 | 5150263 21 20 25 2010 | 5150264 21 20 25 2140 | 5150265 21 24 25 2560 | 5150266 24 24 25 3440 |
| | 14 | Product No. Mast, E Boom, W Pivot No. Weight | 5150267 18 15 20 1345 | 5150268 18 15 20 1430 | 5150269 18 18 25 1675 | 5150270 21 20 25 2135 | 5150271 21 20 25 2265 | 5150272 24 24 25 2890 | 5150273 24 24 25 3595 |
| | 16 | Product No. Mast, E Boom, W Pivot No. Weight | 5150274 18 15 20 1445 | 5150275 18 15 20 1530 | 5150276 21 18 20 1980 | 5150277 21 20 25 2260 | 5150278 24 20 25 2640 | 5150279 24 24 25 3040 | 5150280 24 24 25 3730 |
| | 18 | Product No. Mast, E Boom, W Pivot No. Weight | 5150281 18 15 20 1545 | 5150282 18 15 20 1630 | 5150283 21 18 20 2100 | 5150284 24 20 20 2645 | 5150285 24 20 25 2800 | 5150286 24 24 25 3195 | 5150287 24 24 25 4230 |
| | 20 | Product No. Mast, E Boom, W Pivot No. Weight | 5150288 18 15 20 1645 | 5150289 21 15 20 2000 | 5150290 21 18 20 2225 | 5150291 24 20 20 2800 | 5150292 24 20 25 2950 | 5150293 27 24 25 3740 | 5150294 27 24 25 4425 |
| 5 | 10 | Product No. Mast, E Boom, W Pivot No. Weight | 5150295 18 18 25 1255 | 5150296 18 18 25 1365 | 5150297 21 20 25 1755 | 5150298 21 20 25 2005 | 5150299 24 24 25 2440 | 5150300 24 24 25 3075 | 5150301 24 24 25 3285 |
| | 12 | Product No. Mast, E Boom, W Pivot No. Weight | 5150302 18 18 25 1360 | 5150303 18 18 25 1465 | 5150304 21 20 25 1880 | 5150305 21 20 25 2025 | 5150306 24 24 25 2590 | 5150307 24 24 25 3225 | 5150308 24 24 25 3440 |
| | 14 | Product No. Mast, E Boom, W Pivot No. Weight | 5150309 18 18 20 1440 | 5150310 18 18 25 1565 | 5150311 21 20 25 2005 | 5150312 21 20 25 2155 | 5150313 24 24 25 2750 | 5150314 24 24 25 3380 | 5150315 27 24 25 3875 |
| | 16 | Product No. Mast, E Boom, W Pivot No. Weight | 5150316 18 18 20 1540 | 5150317 21 18 20 1870 | 5150318 21 20 25 2125 | 5150319 24 20 25 2510 | 5150320 24 24 25 2880 | 5150321 27 24 25 3830 | 5150322 27 24 25 4065 |
| | 18 | Product No. Mast, E Boom, W Pivot No. Weight | 5150323 18 18 20 1745 | 5150324 21 18 20 1995 | 5150325 24 20 20 2515 | 5150326 24 20 25 2665 | 5150327 27 24 25 3385 | 5150328 27 24 25 4010 | 5150329 27 24 25 4250 |
| | 20 | Product No. Mast, E Boom, W Pivot No. Weight | 5150330 21 18 20 2010 | 5150331 21 18 20 2105 | 5150332 24 20 20 2665 | 5150333 24 20 25 2820 | 5150334 27 24 25 3575 | 5150335 27 24 25 4205 | 5150336 27 24 25 4445 |

All dimensions shown in inches.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.

**1/2 to 5
TONS**

**SERIES 515 MAST TYPE CANTILEVER
JIB CRANE**

51-40

STANDARD EQUIPMENT SPECIFICATIONS

DESIGN FACTORS: Standard capacity ratings shall represent the net rated load at the hook of any type of hoist with the same load rating installed on the jib crane having a hoist trolley weight within the established limits. The jib crane shall be so designed in the load-carrying parts that the calculated static stress in the material based on the rated load, shall not exceed 20% of the published average ultimate strength of the material. This limitation of stress provides a margin to allow for variations in the properties of materials, manufacturing and operation conditions, and design assumptions. Design load for stress calculations shall be based upon the capacity plus 15% for the weight of the hoist and trolley and an additional 25% for impact (capacity X 1.4). However, under no condition shall the crane be loaded beyond its rated capacity.

BOOM: Boom beam shall be constructed in accord with AISC specifications. Under full load the beam deflection shall not exceed 1/150 of the span. Design load for deflection calculation shall be based upon the capacity plus 15% for the weight of the hoist and trolley (capacity X 1.15). Boom beam shall be selected structural steel member and shall provide level and straight tread surfaces for the hoist trolleys. The beam shall have adequate lateral stiffness with minimum lateral moment of inertia of 1/20 that of the vertical moment of inertia.

BEARINGS: The upper rotating assembly is to be furnished with a lubricated heavy-duty self-aligning radial loading ball bearing. The top bearing assembly will be so constructed as to accommodate a minimum of one inch (1") deflection from the overhead runway or top supporting truss, without transferring any building loading to the jib mast and allow same to continue rotating and operate freely.

The lower rotating assembly is to be furnished with and oilite bronze bushing and an oilite thrust washer to remove the necessary for internal lubrication.

PAINTING: The jib crane shall be painted before shipment with a prime and finish coat of a lead-free alkyd air-dry enamel. The prime coat is a buff color with a semi-gloss finish. The finish coat is a yellow oxide with a full gloss finish.

OPERATING AND MAINTENANCE: Proper erection instructions, parts list and maintenance instructions will be furnished with the crane.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



Acco Products Division

A division of Babcock Industries Inc.

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A member of the Acco Material Handling Group

Babcock

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Printed in U.S.A.



Acco Products Division

A division of Babcock Industries Inc.

Issued 10-1-85
Supersedes 2-1-84

51-41

SERIES 510 JIB CRANES MODIFICATIONS AND ACCESSORIES

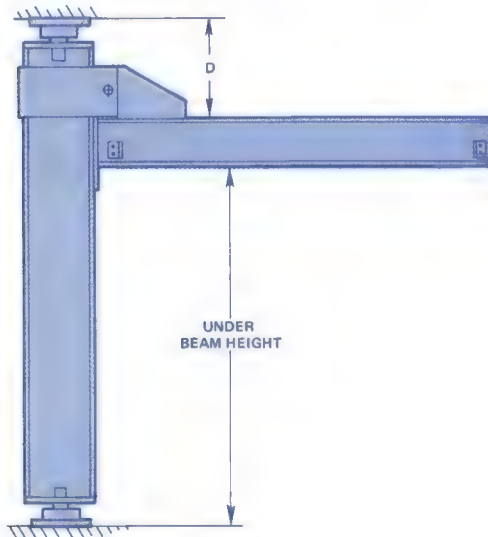
The term "STANDARD" indicates that the item is included in the base price.

The term "OPTIONAL" indicates that the item can be applied to the hoist at additional cost. Price additional can be found in Master Catalog Section 151.

The term "ON APPLICATION" indicates that the item can be applied to the hoist and nearest Hoist and & Crane Division of Acco Industries Inc. representative must be contacted for additions additional cost.

A BOOM

SERIES 515—DROP CANTILEVER CONNECTION:



Drop cantilever connection is available on Series 515 jib crane as optional equipment. The "D" dimension has minimum dimension, but can be dropped beyond the minimum. Specify drop cantilever connection and desired underboom height.

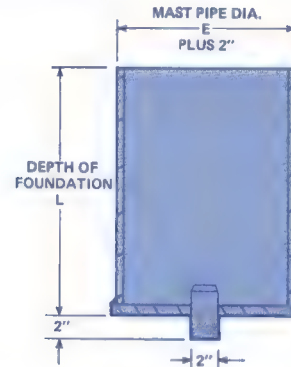
B MAST

SERIES 513 ANCHOR BOLTS: Anchor bolts and base plate template are available as optional equipment on series 513 jib crane foundations.

Specify anchor bolt, quantity, diameter, and foundation depth,

Quan. 6 - 1" dia. bolts for 3'-0" foundation.
Quan. 6 - 1" dia. bolts for 4'-0" foundation.
Quan. 6 - 1 1/4" dia. bolts for 3'-0" foundation.
Quan. 6 - 1 1/4" dia. bolts for 4'-0" foundation.
Quan. 12 - 1 1/4" dia. bolts for 4'-0" foundation.
Quan. 12 - 1 1/4" dia. bolts for 5'-0" foundation.

INSERT MOUNTED SLEEVE:

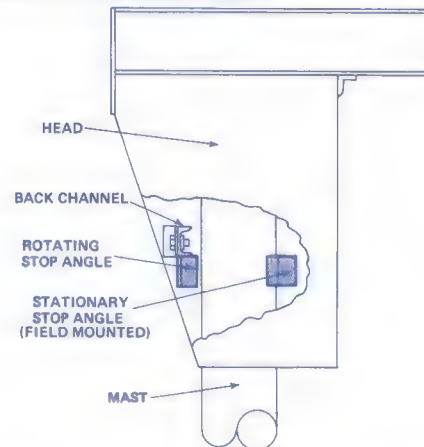


Series 514 insert mounted jib cranes are available with an optional insert mounted sleeve. Forming of jib crane footing is simplified with elimination of anchor bolts and one pouring. Installation is easy with four plumbing wedges provided by others. Price of insert mounted sleeve is an addition to price of the series 514 jib crane.

Specify insert mounted sleeve.

C ROTATION

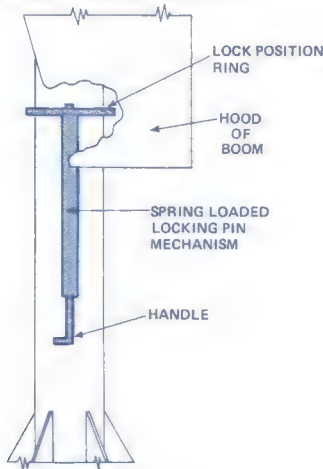
MECHANICAL ROTATION STOPS:



Mechanical rotation stops limits rotation on Series 513 and 514 free standing jib cranes to desired degrees. Angle stop mounts on back channel on jib head. Parts furnished loose for field mounting on mast.

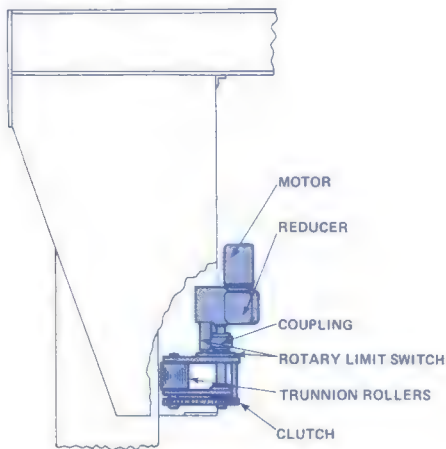
Specify mechanical rotation stops.

MULTI-POSITION PARKING LOCK DEVICE:



Assembly designed for Series 513 and 514 free standing jib cranes with spring mounted pin to physically lock jib at 30° intervals. Engaging mechanism is mounted on head of the boom with locking pin assembly. The locking pin ring is welded to the mast. Designed for outdoor application or top of building where there is nothing to stop boom's rotation. Multi-position parking lock device is **NOT TO BE USED UNDER LOAD, STRICTLY USED TO PREVENT ROTATION** of head and boom. Specify multi-position parking lock device.

POWER ROTATION:



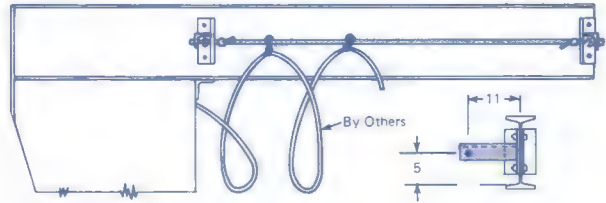
Series 511, 512, 513, 514, and 515 jib cranes are available on application with motorized swing. (Series 513 & 514 shown). These units are for applications where operator does not have access to the load or allowed to exert more than 40 pounds of force to move the load.

The motorized unit drives the lower trunnion rollers in the head of Series 513 and 514 jib cranes.

These units are complete with collector assembly, reducer with slip clutch, motor with brake, reversing starter and transformer. Standard speed is 1/2 RPM; 1/4 to 1 RPM is considered workable range.

D ELECTRIFICATION

FESTOONED TAGLINE HARDWARE:



Economical optional equipment for runs on all series jib cranes. Power supply cable is supported by messenger wire and "S" hooks. Power supply cable and junction box are not included. Hooks spaced at 4 foot intervals keeps cable from looping more than 2 foot below messenger wire. Specify additional length of power cable on hoist when ordering. The kit contains the following:

- "S" hooks
- Support angles (weld to end stops)
- Cable clamps
- Wire rope
- Eyebolt with nuts

To order specify festoon tagline and length of system.

FLAT WIRE CONDUCTOR CABLE: Hoist can be powered with flat wire supply cable as optional equipment. The cable is 4 conductor #12 wire.

Specify flat wire conductor cable and desired length.

FLAT WIRE CORD GRIP CONNECTORS: Recommended for use at all times with 4 conductor #12 flat wire conductor cable. Two per set. Specify flat wire cord grip connectors.

FLAT WIRE TROLLEYS:



Recommended for support of flat wire electrical conductor cable. The two wheel trolleys have steel side plates, nylon cable saddle and hardware. Five trolleys per set.

Specify wire rope trolleys and the number of sets.

FUSIBLE DISCONNECT SWITCH:

The optional switch assembly is fusible, but furnished less fuses. Capacity of manual disconnect switch determined by fuse size required by National Electrical Code 430-62. (Allowable fuse size of largest motor, based on NEC table 430-152, plus sum of full load currents of the other motors.) Fusible disconnect will have lock-out provisions in NEMA type 3R enclosure. Two fuse sizes are available—30 and 60 amps, 600 volts. Switch furnished loose for field mounting.

Specify fusible disconnect switch and fuse size.

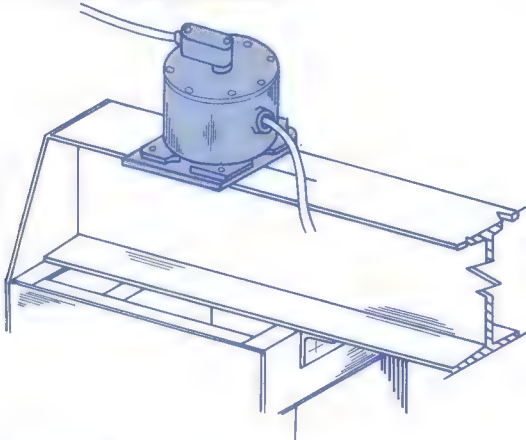


SERIES 510 JIB CRANE MODIFICATIONS AND ACCESSORIES

51-43 Issued 10-1-85

**1/4 to 5
TONS**

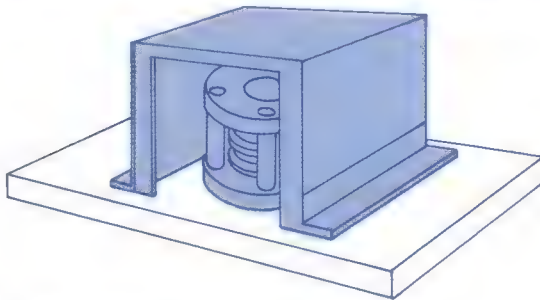
TOP ENTRY COLLECTOR ASSEMBLY:



Top entry electrical assembly is available as optional equipment on all Series 513 and 514 jib cranes where electrical power source can be connected from top of the jib crane. It permits continuous uninterrupted rotation. Internal wiring in pillar is not necessary. The assembly includes NEMA Type 3R enclosure and mounting plate. Collector enclosure is furnished loose and affects headroom of the jib crane. Festooned tagline hardware is furnished with assembly. Specify additional length of power cable on hoist when ordering.

To order specify top entry collector assembly.

ELECTRICAL BOTTOM ENTRY COLLECTOR ASSEMBLY:



Bottom entry electrical collector assembly is available as optional equipment on series 513 and 514 jib crane permitting 360° continuous uninterrupted rotation. It is necessary where electrical power source can not be connected from top of jib crane. The assembly includes side collector rings, NEMA type 1 enclosure, and festooned tagline hardware. Price does not include junction boxes, internal wiring, and power supply cable to the hoist. Specify additional length of power cable on hoist when ordering. To order specify electrical bottom entry collector assembly.

WEATHERPROOFED BOTTOM ENTRY COLLECTOR:

NEMA type 3R enclosure is available as optional equipment for bottom entry collector assembly.

Specify weatherproofed bottom entry collector assembly.

E AIR SUPPLIES

AIR SWIVEL BOTTOM ENTRY ASSEMBLY:

Bottom entry air swivel assembly is available as optional equipment on Series 513 and 514 jib crane permitting 360° continuous uninterrupted rotation. It is necessary where air power source can not be connected from the top of jib crane. The assembly includes internal mast piping, swivel assembly and festooned tagline hardware. Specify additional length of air power hose. Two pipe sizes are available — 1/2 or 3/4 inch. Specify air swivel bottom entry assembly and pipe size.

F GENERAL

Export Packing

Contact factory.

Field Service by Factory Personnel

Installation and start-up supervision or check-out is available.

The charges are based on an eight hour day, Saturday and Sunday included if necessary. Anytime beyond eight hours per day, unless by **Acco** option, will be charged.

In addition expenses will be billed portal to portal.

For maintenance and repair service agreements and field service charges refer to **Acco** Service Contract. Form 11-10-003. Field sales representatives are also available for start-up supervision. Contact Hoist & Crane Division of **Acco** Industries Inc. regional office.

Special Inspection

Orders or quotes specifying physical inspection of either parts or assemblies by other than **Acco** employees at the Hoist & Crane Division plant prior to shipment will carry an additional charge.

Special Painting

Standard surface preparation prior to painting is wire brushing.

Standard paint for **Acco** products is yellow air dry enamel #18538B that matches Federal Standard color chart #595 type 13538.

Equipment requiring colors other than standard and/or special surface preparation will be priced from the factory.

Any order received at the **Acco** Industries, Inc. Hoist & Crane Division, processed into the schedule and then revised to include special paint or surface preparation, will be subject not only to the change for the special paint and surface preparation but also a handling charge.

GALVANIZING

Contact factory.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



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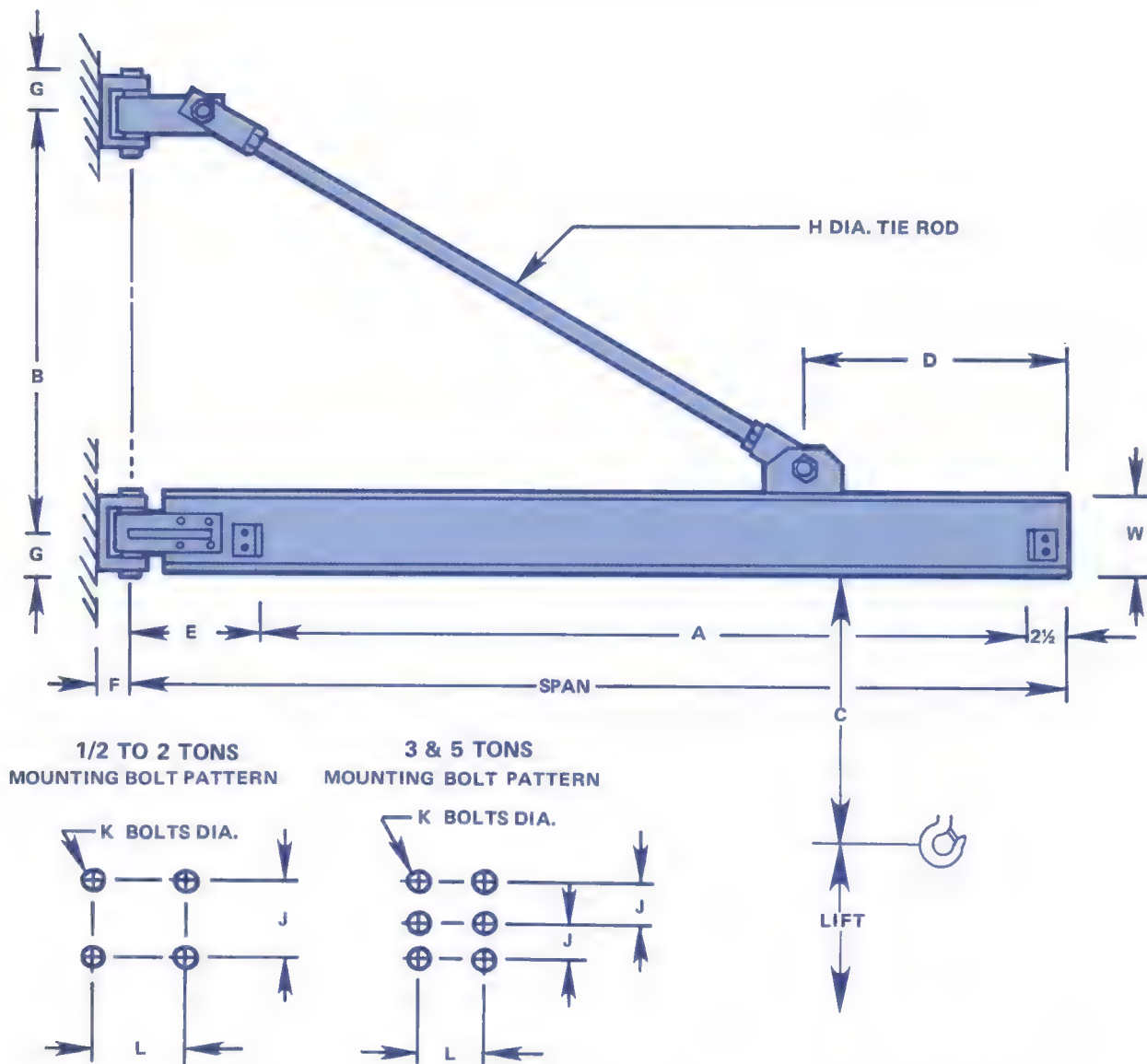


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SERIES 511 WALL BRACKET JIB CRANE

51-44
Issued 10-1-85



Minimum OSHA clearance between crane and obstruction requires 2" lateral and 3" overhead.

CUSTOMER: _____

CUST. ORDER NO. _____

H&C QUOTE NO. _____

H&C JOB NO. _____

DATE _____

SERIAL NO. _____

CUSTOMER APPROVAL _____

JIB CRANE PROD. NO. _____

CAPACITY _____

SPAN _____

LIFT _____

HOIST PROD. NO. _____

TROLLEY PROD. NO. _____

BOOM

BEAM _____

CAP. CH. _____

FLANGE WIDTH _____

POWER SUPPLY _____

CRANE WT. _____

A _____

B _____

C _____

D _____

E _____

F _____

G _____

H _____

J _____

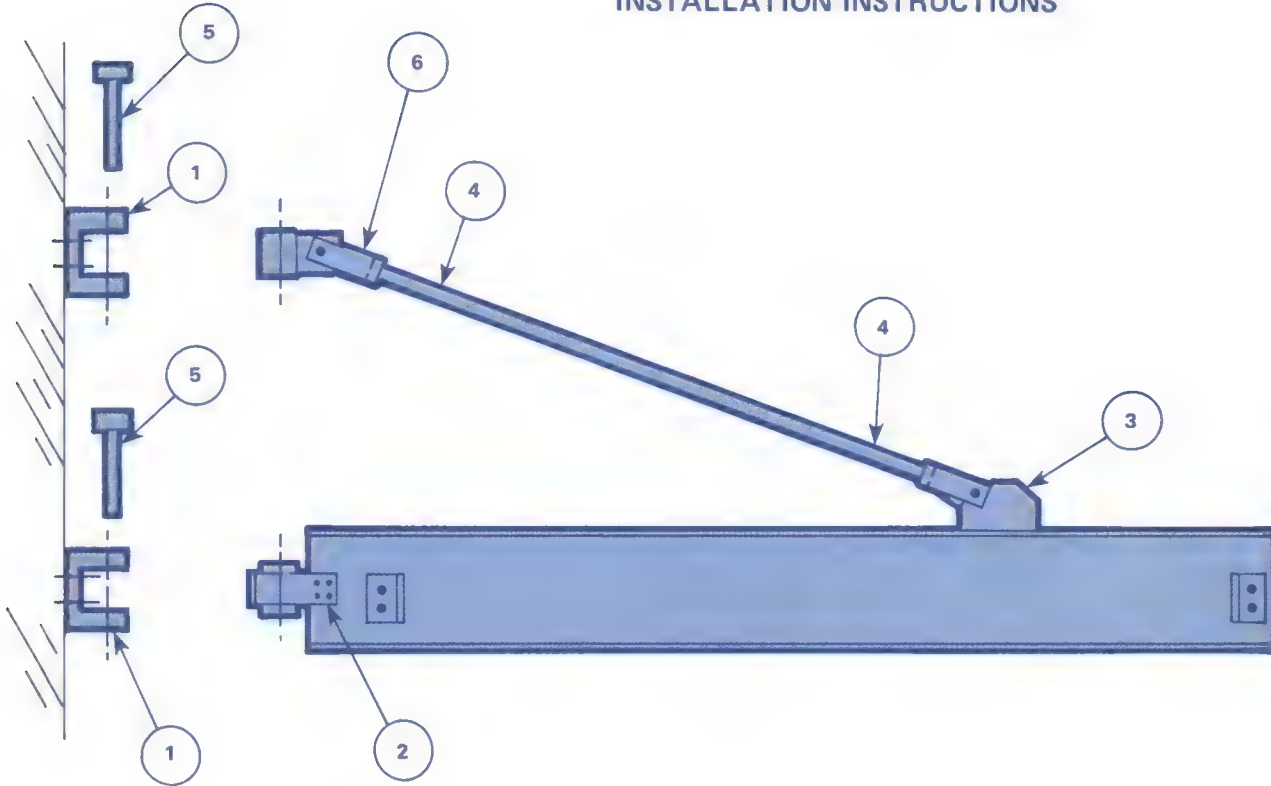
K _____

L _____

W _____

DATE SIGNATURE _____

All dimensions shown in inches.

INSTALLATION INSTRUCTIONS**INSTRUCTIONS:**

1. Bolt brackets No. (1) to structurally adequate wall or beam. (Bolts by others). Make sure brackets are in line and plumb through holes for bolts (5).
2. Bolt brackets (2) and (3) to beam. (Hardware supplied)
3. Attach tension rod to brackets (3) and (6). Two nuts supplied for each end.
4. Attach beam to wall brackets (1) using bolts (5) supplied. Level beam by adjusting tension rod.
5. Add trolley stops and hoist.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.

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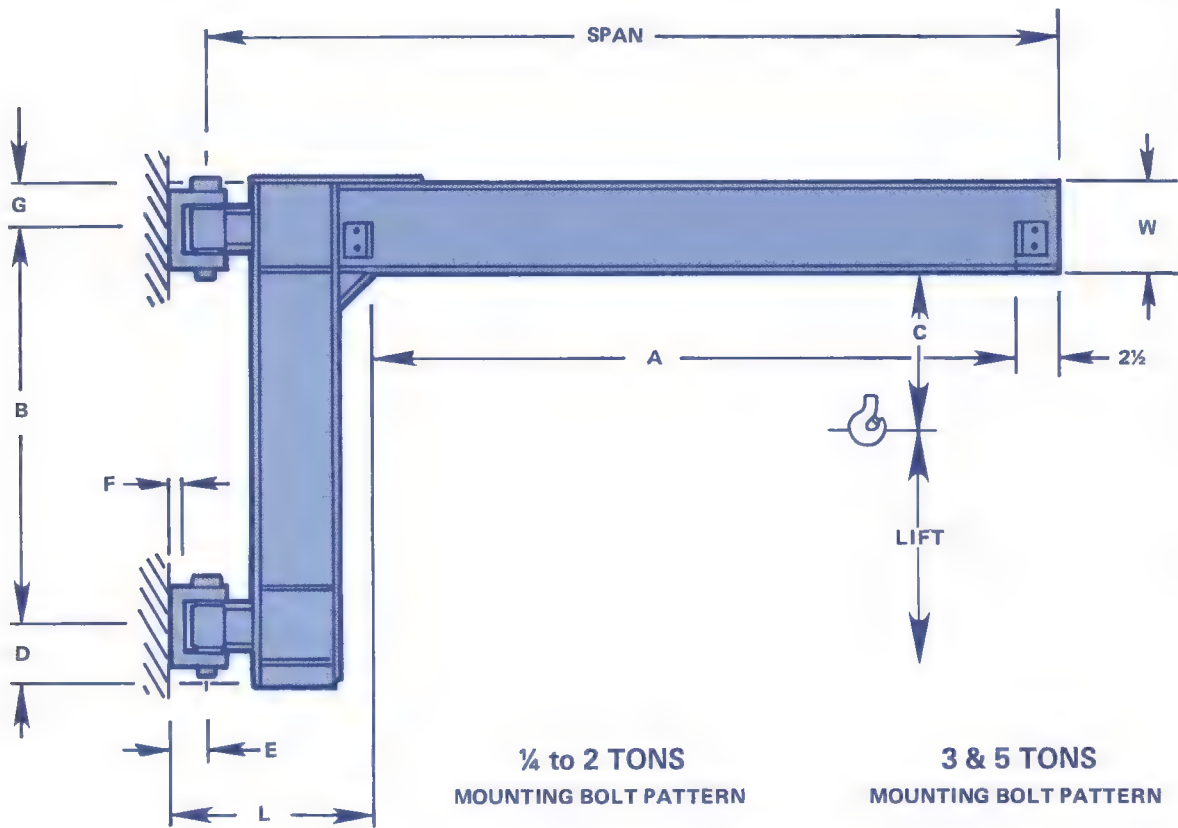
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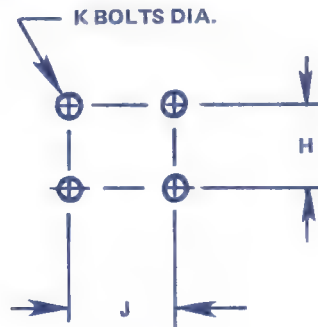


**SERIES 512 WALL CANTILEVER
JIB CRANES**

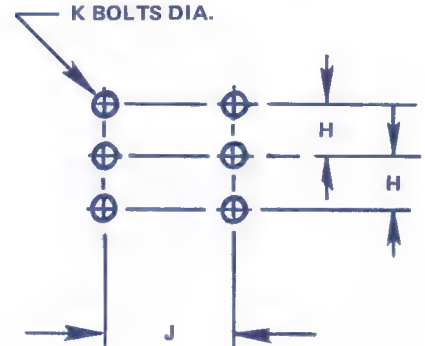
51-46
Issued 10-1-85



**1/4 to 2 TONS
MOUNTING BOLT PATTERN**



**3 & 5 TONS
MOUNTING BOLT PATTERN**



Minimum OSHA clearance between crane and obstruction requires 2" lateral and 3" overhead.

CUSTOMER: _____

CUST. ORDER NO. _____

H&C QUOTE NO. _____

H&C JOB NO. _____

DATE _____

SERIAL NO. _____

CUSTOMER APPROVAL _____

JIB CRANE PROD. NO. _____

CAPACITY _____

SPAN _____

LIFT _____

HOIST PROD. NO. _____

TROLLEY PROD. NO. _____

BOOM _____

BEAM _____

CAP. CH. _____

FLANGE WIDTH _____

POWER SUPPLY _____

CRANE WT. _____

A _____

B _____

C _____

D _____

E _____

F _____

G _____

H _____

J _____

K _____

L _____

W _____

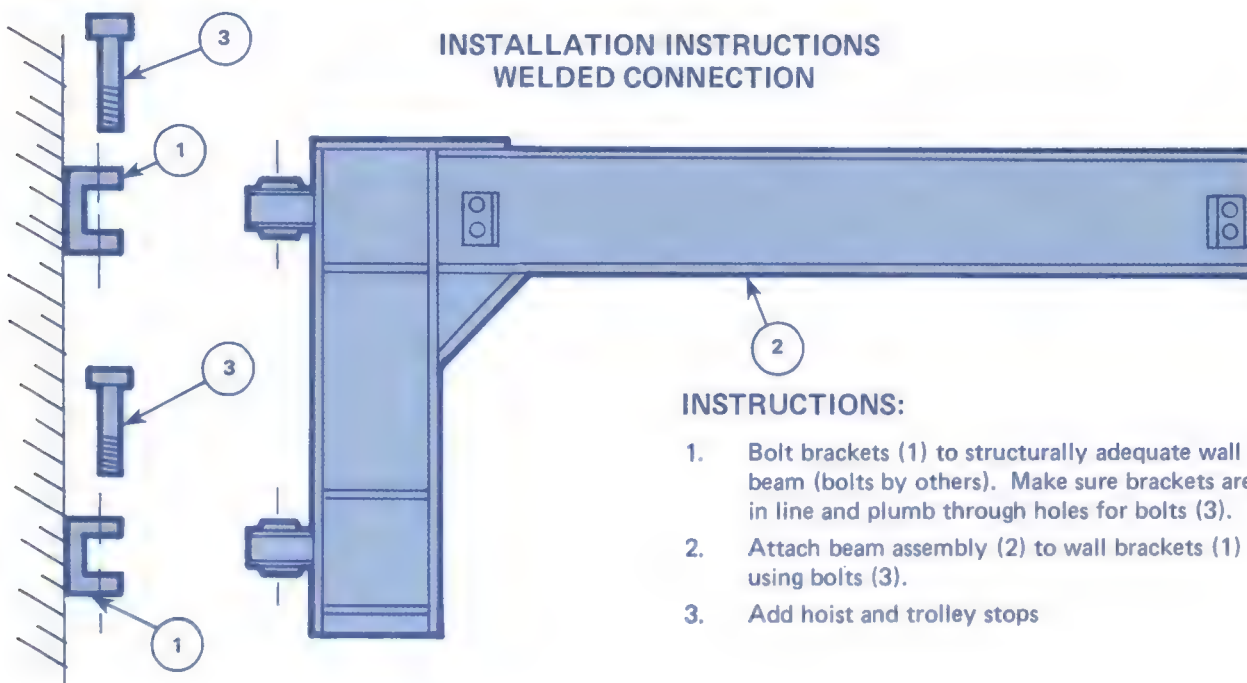
DATE SIGNATURE _____

All dimensions shown in inches.

**1/4 to 5
TONS**

**SERIES 512 WALL CANTILEVER
JIB CRANES**

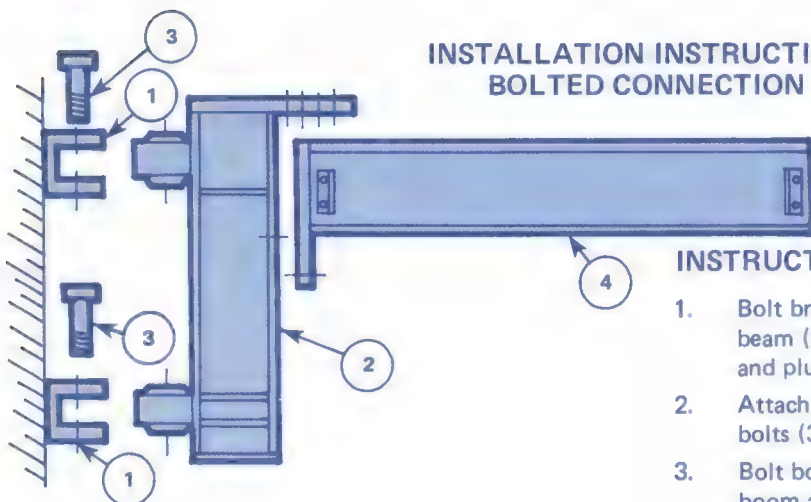
51-47



**INSTALLATION INSTRUCTIONS
WELDED CONNECTION**

INSTRUCTIONS:

1. Bolt brackets (1) to structurally adequate wall or beam (bolts by others). Make sure brackets are in line and plumb through holes for bolts (3).
2. Attach beam assembly (2) to wall brackets (1) using bolts (3).
3. Add hoist and trolley stops



**INSTALLATION INSTRUCTIONS
BOLTED CONNECTION**

INSTRUCTIONS:

1. Bolt brackets (1) to structurally adequate wall or beam (bolts by others). Make sure brackets are in line and plumb through holes for bolts (3).
2. Attach mast assembly (2) to wall brackets (1) using bolts (3).
3. Bolt boom (4) to mast with bolts provided for the top of boom and front of mast.
4. Be sure that the boom is leveled properly to a point of $L/300$ (length of span divided by 300) above level.
5. Add hoist and trolley stops

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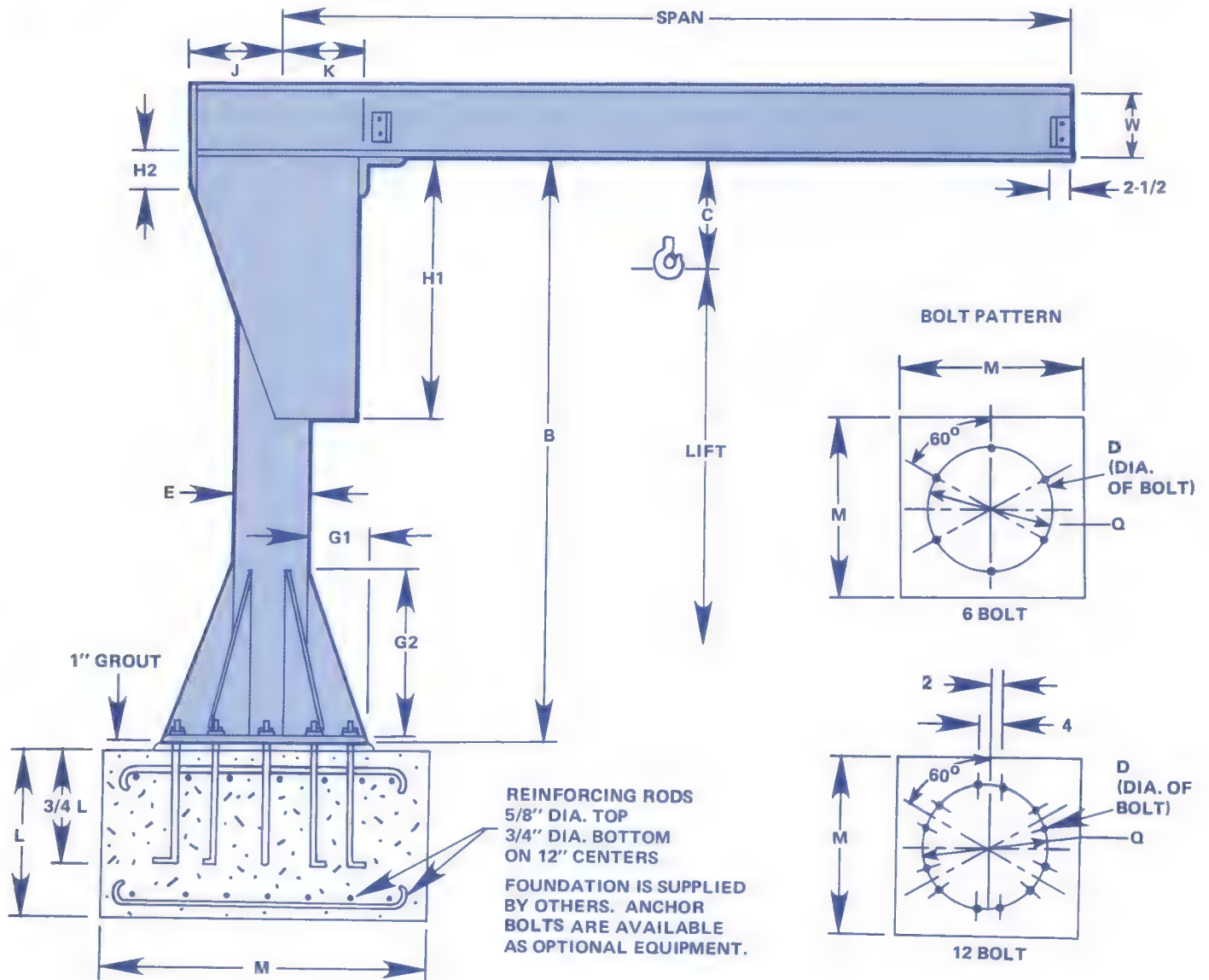
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**SERIES 513 360° BASE MOUNTED
FREE STANDING JIB CRANES**

51-48
Issued 10-1-85



Minimum OSHA clearance between crane and obstruction requires
2" lateral and 3" overhead.

CUSTOMER: _____

CUST. ORDER NO. _____

H&C QUOTE NO. _____

H&C JOB NO. _____

DATE _____

SERIAL NO. _____

CUSTOMER APPROVAL _____

DATE SIGNATURE _____

JIB CRANE PROD. NO. _____

CAPACITY _____

SPAN _____

LIFT _____

HOIST PROD. NO. _____

TROLLEY PROD. NO. _____

BOOM

BEAM _____

CAP. CH. _____

FLANGE WIDTH _____

POWER SUPPLY _____

CRANE WT. _____

All dimensions shown inches

B _____
C _____
D _____
E _____
G₁ _____
G₂ _____
H₁ _____
H₂ _____
J _____
K _____
L _____
M _____
Q _____
W _____

**1/4 to 5
TONS**

**SERIES 513 360° BASE MOUNTED
FREE STANDING JIB CRANES**

51-49

INSTALLATION INSTRUCTIONS

Pour and install anchor bolts according to the footing dimensions given. When pour has completely set secure and plumb mast. It is critical that the mast be properly plumb in order to insure proper rotation without the worry of drifting. Place top bearing inner race and rollers on pivot pin and outer race in head bearing block. Place head on mast, install retaining pin, plus collector assembly if applicable. Install back channel then set boom on head and secure to head with all bolt holes provided.

Adjust boom so that the free end is the span in inches divided by 300 above level by evenly adjusting the threaded rod on the trunnion roller assembly.

Install crane electrification if applicable then place the collector/top bearing cover in place and secure.

Take normal precautions to assure that the crane operates in a proper manner. These include, but are not limited to, checking for obstructions in crane swing being sure all bolts are tight and have lock washers, threaded rods are securely tightened, and trolley stops are in place. If crane is electrified be sure electrification cannot be snagged or pinched.

The design factor of an Acco jib crane is one that is required for our design to meet accepted design criteria and is typically based on the yield strength of the materials used. Its purpose is to protect against manufacturing variables such as: steel mill rolling tolerances, residual stresses or the stress concentrations within the members, and variables in our manufacturing process. It is not incorporated to allow for the crane to be overloaded. Be sure that your installers, maintenance personnel, and operators realize that this jib crane can only be used to pick up a maximum of its rated capacity.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



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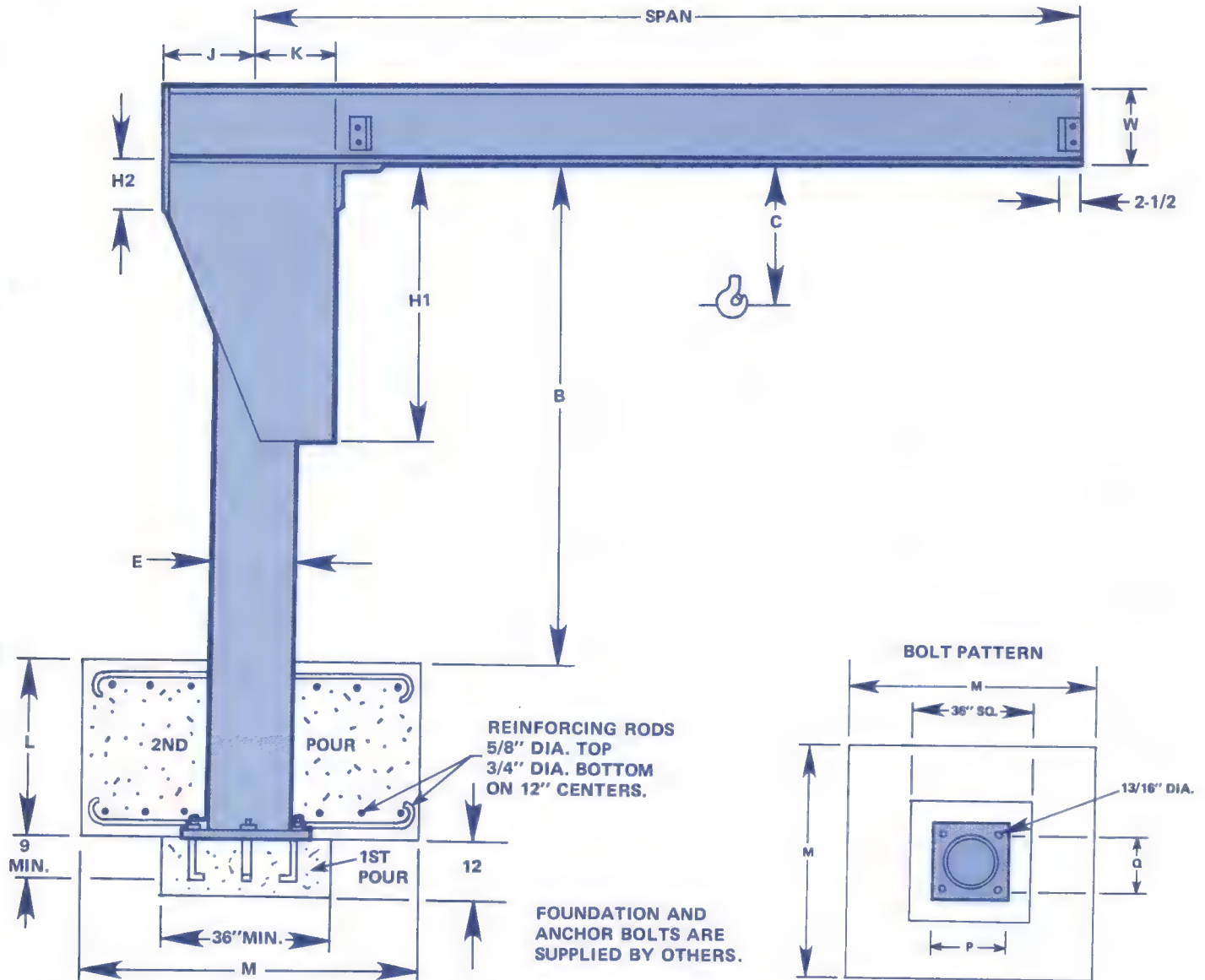
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**SERIES 514 360° Insert Mounted
Free Standing Jib Crane**

**STANDARD
INSERT**

51-50
Issued 10-1-85



Minimum OSHA clearance between crane and obstruction requires 2" lateral and 3" overhead.

CUSTOMER: _____

CUST. ORDER NO. _____

H&C QUOTE NO. _____

H&C JOB NO. _____

DATE _____

SERIAL NO. _____

CUSTOMER APPROVAL _____

JIB CRANE PROD. NO. _____

CAPACITY _____

SPAN _____

LIFT _____

HOIST PROD. NO. _____

TROLLEY PROD. NO. _____

BOOM _____

BEAM _____

CAP. CH. _____

FLANGE WIDTH _____

POWER SUPPLY _____

CRANE WT. _____

B _____

C _____

E _____

H₁ _____

H₂ _____

J _____

K _____

L _____

M _____

P _____

Q _____

W _____

DATE SIGNATURE _____

All dimensions shown in inches.



INSTALLATION INSTRUCTIONS

Install first (1st) pour as shown with anchor bolts until base plate is secure and mast is plumb. Make second pour according to the footing dimensions given.

When second pour has completely set up, place top bearing inner race and rollers on pivot pin and outer race in head bearing block. Place head on mast, install retaining pin, plus collector assembly if applicable. Install back channel then set boom on head and secure to head with all bolt holes provided.

Adjust boom so that the free end is the span in inches divided by 300 above level by evenly adjusting the threaded rod on the trunnion roller assembly.

Install crane electrification if applicable then place the collector/top bearing cover in place and secure.

Take normal precautions to assure that the crane operates in a proper manner. These include, but are not limited to, checking for obstructions in crane swing being sure all bolts are tight and have lock washers, threaded rods are securely tightened, and trolley stops are in place. If crane is electrified be sure electrification cannot be snagged or pinched.

The design factor of an Acco jib crane is one that is required for our design to meet accepted design criteria and is typically based on the yield strength of the materials used. Its purpose is to protect against manufacturing variables such as: steel mill rolling tolerances, residual stresses or the stress concentrations within the members, and variables in our manufacturing process. It is not incorporated to allow for the crane to be overloaded. Be sure that your installers, maintenance personnel, and operators realize that this jib crane can only be used to pick up a maximum of its rated capacity.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



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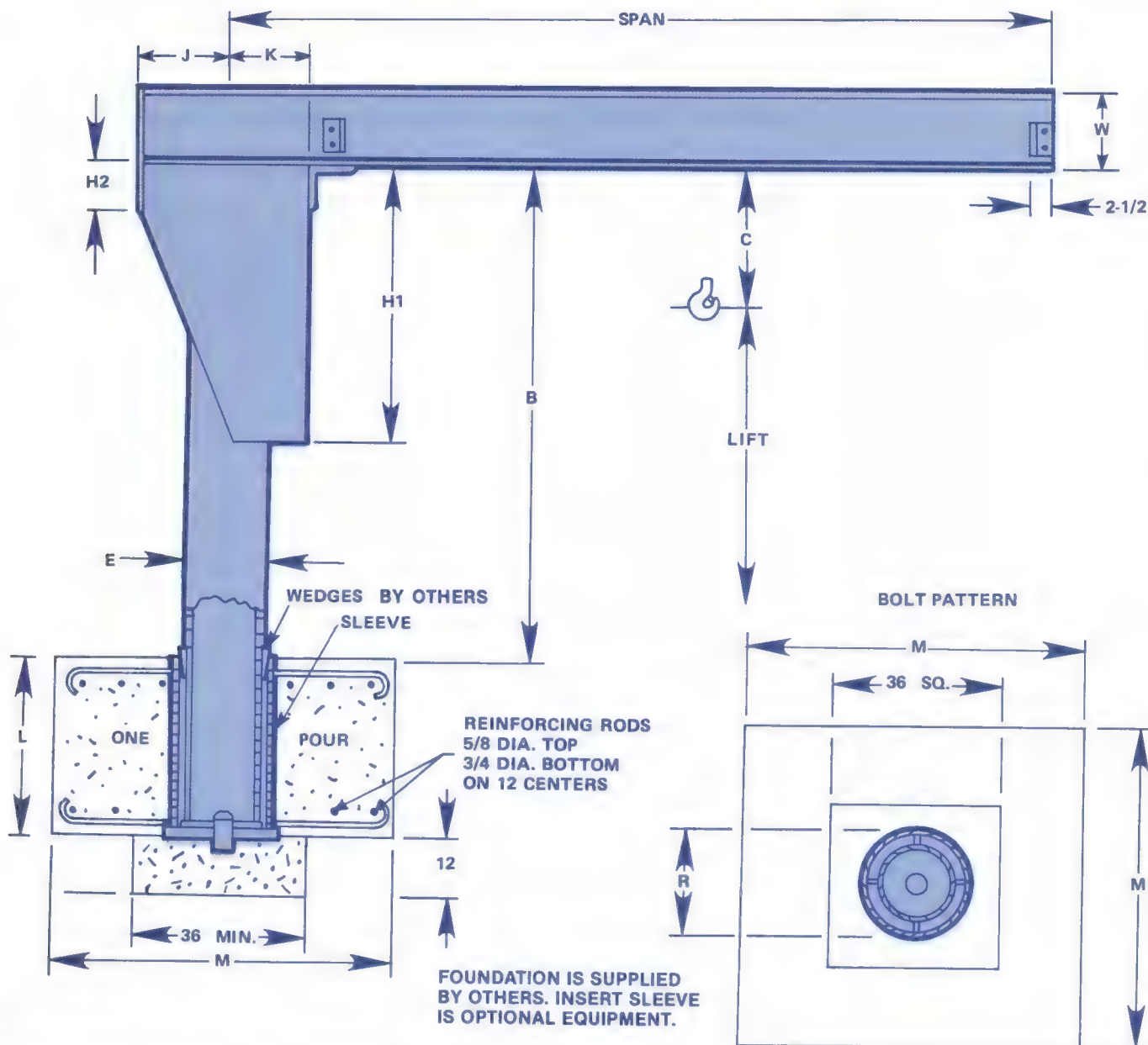
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**SERIES 514 360° INSERT MOUNTED
FREE STANDING JIB CRANES**

**OPTIONAL
SLEEVE INSERT**

51-52
Issued 10-1-85



Minimum OSHA clearance between crane and obstruction requires 2" lateral and 3" overhead.

CUSTOMER: _____

CUST. ORDER NO. _____

H&C QUOTE NO. _____

H&C JOB NO. _____

DATE _____

SERIAL NO. _____

CUSTOMER APPROVAL _____

JIB CRANE PROD. NO. _____

CAPACITY _____

SPAN _____

LIFT _____

HOIST PROD. NO. _____

TROLLEY PROD. NO. _____

BOOM _____

BEAM _____

CAP. CH. _____

FLANGE WIDTH _____

POWER SUPPLY _____

CRANE WT. _____

B _____

C _____

E _____

H₁ _____

H₂ _____

J _____

K _____

L _____

M _____

R _____

W _____

DATE SIGNATURE _____

All dimensions shown in inches.

**1/4 to 5
TONS**

**SERIES 514 360° INSERT MOUNTED
FREE STANDING JIB CRANES**

**OPTIONAL
SLEEVE INSERT**

51-53

INSTALLATION INSTRUCTIONS

Install first 12" of pour as shown with insert sleeve secure and plumb. Make remaining pour according to the footing dimensions given.

When the pour has completely set, insert the crane mast inside the sleeve. Be sure to align mast with the centering pin in the sleeve. Next use steel wedges to properly plumb mast. (It is critical that the mast be properly plumb in order to insure proper rotation without the worry of drifting.) Once the mast has been plumbed, weld the steel wedges to the mast and sleeve to prevent any shifting of the mast.

Once mast has been installed and plumbed properly, place top bearing inner race and rollers on pivot pin and outer race in head bearing block. Place head on mast, install retaining pin, plus collector assembly if applicable. Install back channel then set boom on head and secure to head with all bolt holes provided.

Adjust boom so that the free end is the span in inches divided by 300 above level by evenly adjusting the threaded rod on the trunnion roller assembly.

Install crane electrification if applicable then place the collector/top bearing cover in place and secure.

Take normal precautions to assure that the crane operates in a proper manner. These include, but are not limited to, checking for obstructions in crane swing being sure all bolts are tight and have lock washers, threaded rods are securely tightened, and trolley stops are in place. If crane is electrified be sure electrification cannot be snagged or pinched.

The design factor of an Acco jib crane is one that is required for our design to meet accepted design criteria and is typically based on the yield strength of the materials used. Its purpose is to protect against manufacturing variables such as: steel mill rolling tolerances, residual stresses or the stress concentrations within the members, and variables in our manufacturing process. It is not incorporated to allow for the crane to be overloaded. Be sure that your installers, maintenance personnel, and operators realize that this jib crane can only be used to pick up a maximum of its rated capacity.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



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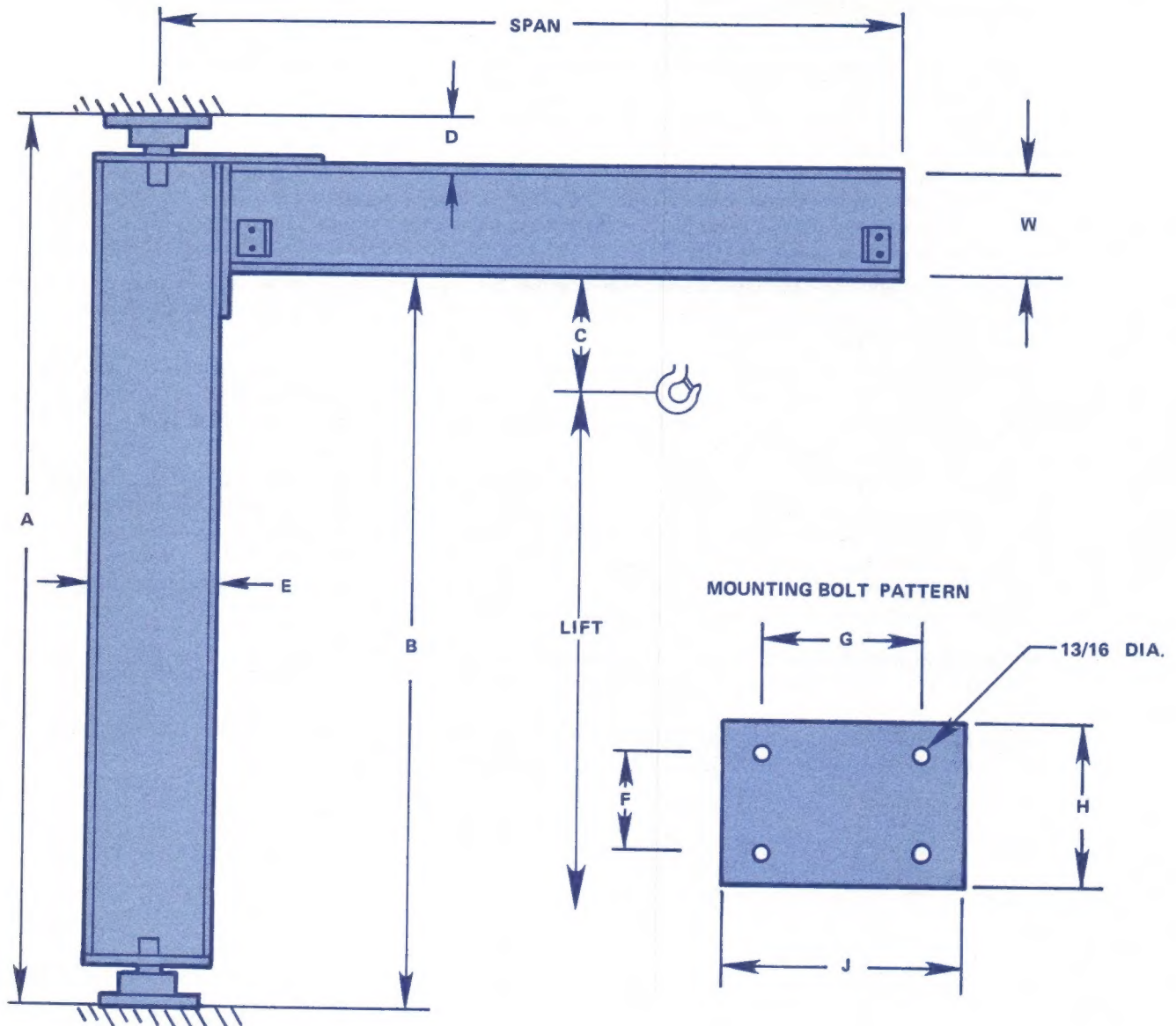
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**SERIES 515 MAST TYPE CANTILEVER
JIB CRANE**

**STANDARD
FULL CANTILEVER**

51-54
Issued 10-1-85



Minimum OSHA clearance between crane and obstruction requires
2" lateral and 3" overhead.

CUSTOMER: _____

CUST. ORDER NO. _____

H&C QUOTE NO. _____

H&C JOB NO. _____

DATE _____

SERIAL NO. _____

CUSTOMER APPROVAL _____

JIB CRANE PROD. NO. _____

CAPACITY _____

SPAN _____

LIFT _____

HOIST PROD. NO. _____

TROLLEY PROD. NO. _____

BOOM _____

BEAM _____

CAP. CH. _____

FLANGE WIDTH _____

POWER SUPPLY _____

CRANE WT. _____

A _____

B _____

C _____

D _____

E _____

F _____

G _____

H _____

J _____

W _____

DATE SIGNATURE _____

All dimensions shown in inches.

**1/2 to 5
TONS**

**SERIES 515 MAST TYPE CANTILEVER
JIB CRANE**

**STANDARD
FULL CANTILEVER**

51-55

INSTALLATION INSTRUCTIONS:

The mast type jib crane is shipped as a mast assembly, a boom assembly, top pivot bracket, bottom pivot bracket, and assembly hardware.

To install the mast type jib crane, place the top and bottom pivot brackets on to the top pivot pin and the bottom pivot pin respectively. Take the entire mast assembly and raise it to a vertical position where it is to be installed. One inch (1") clearance should be allowed overhead to ease installation. Then shim the top pivot bracket until the mast is in a true vertical plane and drop a plumb line to insure. Now bolt the top pivot bracket to its overhead support and the bottom pivot bracket to the existing floor. No special foundation requirements are necessary.

Install boom assembly by bolting the top of the boom to the top mast plate and the back boom plate to the front flange of the mast assembly. Adjust boom so that the free end is leveled to a point of the span in inches divided by 300 above level.

Take normal precautions to assure that the crane operates in a proper manner. These include, but are not limited to, checking for obstructions in crane swing being sure all bolts are tight and have lock washers, threaded rods are securely tightened, and trolley stops are in place. If crane is electrified be sure electrification cannot be snagged or pinched.

The design factor of an *Acco* jib crane is one that is required for our design to meet accepted design criteria and is typically based on the yield strength of the materials used. Its purpose is to protect against manufacturing variables such as: steel mill rolling tolerances, residual stresses or the stress concentrations within the members, and variables in our manufacturing process. It is not incorporated to allow for the crane to be overloaded. Be sure that your installers, maintenance personnel, and operators realize that this jib crane can only be used to pick up a maximum of its rated capacity.

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WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



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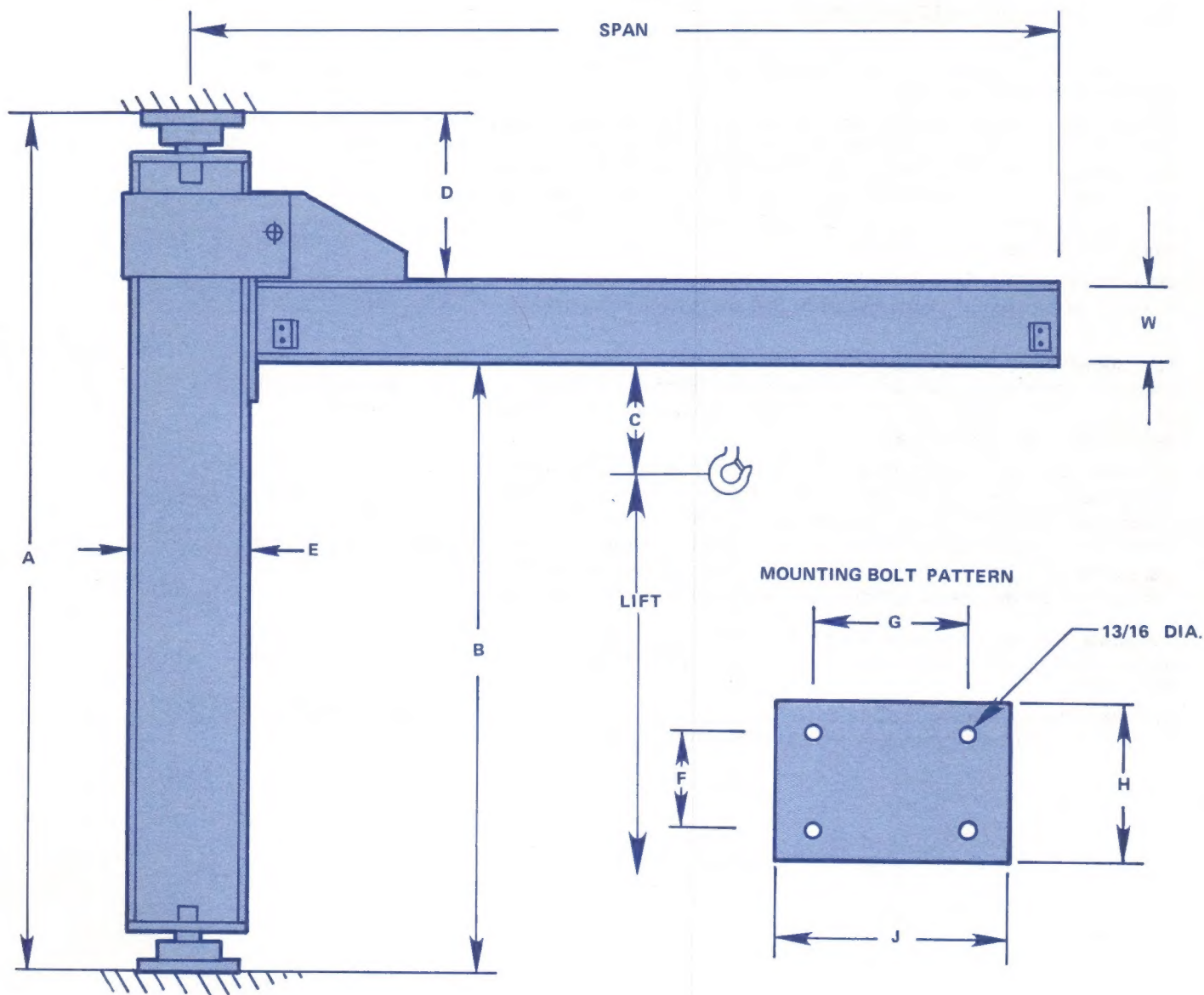
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**SERIES 515 MAST TYPE CANTILEVER
JIB CRANE**

**OPTIONAL DROP
CANTILEVER**

51-56
Issued 10-1-85



Minimum OSHA clearance between crane and obstruction requires
2" lateral and 3" overhead.

CUSTOMER: _____

CUST. ORDER NO. _____

H&C QUOTE NO. _____

H&C JOB NO. _____

DATE _____

SERIAL NO. _____

CUSTOMER APPROVAL _____

JIB CRANE PROD. NO. _____

CAPACITY _____

SPAN _____

LIFT _____

HOIST PROD. NO. _____

TROLLEY PROD. NO. _____

BOOM _____

BEAM _____

CAP. CH. _____

FLANGE WIDTH _____

POWER SUPPLY _____

CRANE WT. _____

A _____

B _____

C _____

D _____

E _____

F _____

G _____

H _____

J _____

W _____

DATE SIGNATURE _____

All dimensions shown inches

**1/2 to 5
TONS**

**SERIES 515 MAST TYPE CANTILEVER
JIB CRANE**

**OPTIONAL
DROP CANTILEVER**

51-57

INSTALLATION INSTRUCTIONS:

The mast type jib crane is shipped as a mast assembly, a boom assembly, top pivot bracket, bottom pivot bracket, and assembly hardware.

To install the mast type jib crane, place the top and bottom pivot brackets on to the top pivot pin and the bottom pivot pin respectively. Take the entire mast assembly and raise it to a vertical position where it is to be installed. One inch (1") clearance should be allowed overhead to ease installation. Then shim the top pivot bracket until the mast is in a true vertical plane and drop a plumb line to insure. Now bolt the top pivot bracket to its overhead support and the bottom pivot bracket to the existing floor. No special foundation requirements are necessary.

Install boom assembly by bolting the boom to the mast assembly. Adjust boom so that the free end is leveled to a point of the span in inches divided by 300 above level.

Take normal precautions to assure that the crane operates in proper manner. These include, but are not limited to, checking for obstructions in crane swing being sure all bolts are tight and have lock washers, threaded rods are securely tightened, and trolley stops are in place. If crane is electrified be sure electrification cannot be snagged or pinched.

The design factor of an *Acco* jib crane is one that is required for our design to meet accepted design criteria and is typically based on the yield strength of the materials used. Its purpose is to protect against manufacturing variables such as: steel mill rolling tolerances, residual stresses or the stress concentrations within the members, and variables in our manufacturing process. It is not incorporated to allow for the crane to be overloaded. Be sure that your installers, maintenance personnel, and operators realize that this jib crane can only be used to pick up a maximum of its rated capacity.

WARNING: Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

WARNING: Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



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